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THE
NATURALISTS' DIRECTORY.

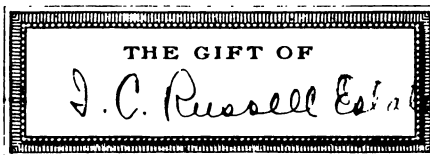
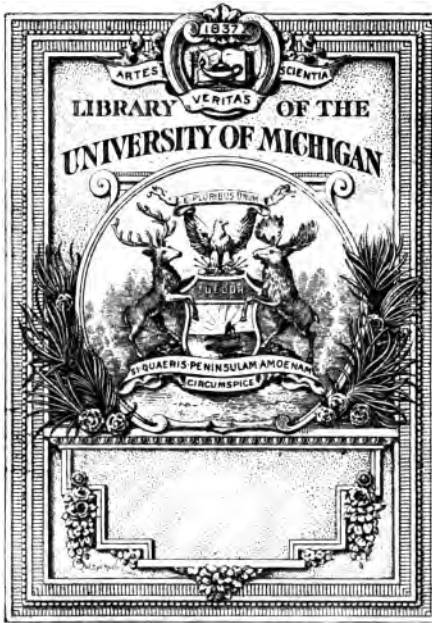
CONTAINING THE NAMES OF

NATURALISTS,
CHEMISTS, PHYSICISTS, & METEOROLOGISTS,
ARRANGED ALPHABETICALLY,

WITH AN

INDEX ARRANGED ACCORDING TO DEPARTMENTS.

SALEM, MASS.
THE NATURALISTS' AGENCY.
1877.



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C. E. Cassino
W. L. Cassino

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NATURALISTS,
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—BY—

SAMUEL E. CASSINO.

SALEM, MASS.
THE NATURALISTS' AGENCY.
1877.

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1877.**

**J. H. CHOATE, PRINTER,
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INTRODUCTION.

IN presenting this NATURALISTS' DIRECTORY we are well aware that it is far from being as complete and perfect as is desirable in a work of its nature, yet we trust it will be found reasonably reliable, and of considerable service. It is now ten years since the first attempt at a *Naturalists' Directory* was made by Prof. F. W. Putnam, and the great esteem with which it was received is evinced by the fact that it soon became out of print, and, though there has been a continued demand for it, was not followed by new and more complete editions.

We have undertaken the compilation of the present Directory at the urgent request of Naturalists of all sections of the country, and whatever degree of completeness it may possess is due to the generous aid our friends have given, more than to ourself. It would be impossible to mention all who have assisted us, but we would especially mention Dr. A. S. Packard, Jr., of the Peabody Academy of Science, Salem; Mr. B. P. Mann of Cambridge, Editor of "Psyche;" Mr. Wm. Saunders, of London, Canada, Editor of the "Canadian Entomologist;" Mr. J. M. Coulter, of Hanover, Ind., Editor of the "Botanical Gazette;" Mr. Edward Burgess, Sec. Boston Society of Natural History; Prof. F. W. Putnam, Perm. Sec. Am. Assoc. for the Advancement of Science; Dr. E. J. Nolan, Sec. Acad. Natural Sciences, Philadelphia; Mr. Geo. J. Bolles of Montreal; Mr. J. G. Schaupp, Sec. Brooklyn Entomological Society; Mr. W. V. Andrews of New York, and Mr. C. Cooke, of Peabody Academy of Science, Salem.

We have, as a rule, inserted only the names of those with whom we have had direct communication, as this seemed to be the only plan by which we could secure accuracy. We have made exceptions to

INTRODUCTION.

this rule in perhaps a score of cases, where we have reason to believe our blanks have not been received.

We might add here, that we have used every means to obtain lists of names, and have sent circulars to all whose names have been given us.

The arrangement of the names in the main part of the Directory is alphabetical, while in the Index they are arranged under departments, the numbers referring to the names in the body of the work. This seems preferable to dividing the Directory into departments, and saves a large amount of repetition.

The list of Chemists and Physicists in part II, is furnished by Dr. H. C. Bolton of Columbia College, New York, to whom corrections and additions should be sent.

We shall publish as often as necessary, a revised edition of the Directory, and it is our intention to issue yearly, a supplement, which shall contain additions, and notices of errors, changes in address, etc. The first will be published in Dec. 1877, and will contain a list of the Scientific Societies of North America. We shall be pleased to receive notices from the Secretaries of such Societies, Clubs, etc., at an early date.

Notices of omissions and errors in the present edition, are earnestly solicited by the Editor :—

Sam'l E. Cassino.

SALEM, MASS., Jan. 29.

PART I.
DIRECTORY
—OF—
NATURALISTS.
1877.

THE

NATURALISTS'

DIRECTORY.

1. AARON, EUGENE M., Maryville, Blount Co., Tenn. *Lepidoptera*: Rhopalocera, Exchange for Western and Northern species.
2. ABBOTT, DR. C. C., Trenton, N. J. *Archæology, Ethnology, Vertebrate Zoölogy*.
3. ABELING, H. H., Walcotville, Conn. *Coleoptera, Lepidoptera*.
4. ACKERILL, D., Belleville, Ontario, Canada. *Microscopy*.
5. AGASSIZ, ALEX., Curator Mus. Comp. Zoöl., Cambridge, Mass. *General Zoölogy, Embryology*.
6. AIKEN, C. E., Colorado Springs, Colorado. *Ornithology, Oölogy*. Ex.
7. AIKEN, W. E., M. D., LL. D., Baltimore Md. *Botany*.
8. AINSLIE, C. N., Rochester, Minn. *Entomology*. Exchange for European, Cal., and Southern species.
9. AKHURST, J., Brooklyn, N.Y. *Entomology*: Coleoptera, Lepidoptera. Ex.
10. ALCOTT, REV. W. P., Bristol, Conn. *Botany*.
11. ALDRICH, J. H., Montevallo, Shelby Co., Ala. *Shells, Minerals and Carboniferous fossils* for ex.
12. ALEXANDER, A. H., W. Hoboken, N. J. Foreign Bird Skins, Art. Eyes.
13. ALLEN, A., Orono, Maine, *Conchology*. Local.
14. ALLEN, J. A., Cambridge, Mass. *Mammalogy, Ornithology*.
15. ALLEN, J. D., Paw Paw, Mich. *Ornithology, Taxidermy*.
16. ALLEN, RICHARD, Cor. Jacob & 12th Sts., N. Y. City. *Microscopy, Entomology*.
17. ALLEN, R. C., Harristown, Ill. *Ornithology*.
18. ALLEN, TIMOTHY F., M. D., New York City. *Botany*.
19. ALLIS, SOLON M., 167 Tremont St., Boston, Mass. *N. A. Geology*.
20. ALLISON, E. H., Eaton, Ohio. *Geology*.
21. ALLMENDINGER, MISS. E. C., Ann Arbor, Mich. *Botany*. Ex.
22. ANDRAS, J. C., Manchester, Scott Co., Ill. *Botany*.
23. ANDERSON, C. L., M.D., Santa Cruz, Cal. *Botany*: Algæ & Fungi.
24. ANDREWS, L., Southington, Conn. *Mineralogy*.
25. ANDREWS, T. L., M. D., Creston, Union Co., Ia. *Botany*.
26. ANDREWS, DR. Q. E., Calumet, Houghton Co., Mich. *Mineralogy, Crystallography*. Ex.

27. ANDREWS, W. V., 36 Bærum Place, Brooklyn, N. Y. *Entomology: Lepidoptera and Coleoptera of the World.* Ex.
28. ANGELL, G. J., 64 Elliott Pl., Brooklyn, N. Y. *Entomology: Coleoptera.*
29. ANGUS, J., West Farms, N. Y. *Entomology: Catocalæ.* Pacific Coast, Southern and Western species wanted in exchange.
30. ANTHONY, J. G., Mus. Comp. Zool., Cambridge, Mass. *Conchology.*
31. AMORY, R., M. D., Norfolk, Mass. *Physiology.*
32. APGAR, A. C., Trenton, N. J. *Zoölogy, Mineralogy.* Ex.
33. APGAR, E. A., Trenton, N. J. *Botany.* Ex.
34. ARTHUR, J. C., Charles City, Iowa. *Botany.* Ex.
35. ASHTON, T. B., Tonganoxie, Leavenworth Co., Kans. *Entomology.*
36. ASIRE, MERWIN E., Oshkosh, Wis. *Entomology.* Ex.
37. ATHERTON, G. W., Taunton, Mass. *Geology.*
38. ATKINSON, H. Everton, Ont., Canada. *Ornithology.*
39. ATWOOD, H. F., Chicago, Ill. *Microscopy, Diatoms.* Ex.
40. ATWOOD, E. N., Cape Elizabeth, Maine. *Ornithology.*
41. ATWOOD, N. E., Provincetown, Mass. *Zoölogy: Fishes.*
42. ATWOOD, E. S., East Orange, N. J., *Microscopy.*
43. AUGHEY, PROF. S., Lincoln, Nebraska. *Geology, Botany.* Cretaceous fossils in ex. for named Echinoderms and Marine Shells.
44. AUSTIN, C. F., Closter, N. J. *Botany: Musci and Hepaticæ.* Would like to ex. Northern for Gulf States species.
45. AUSTIN, E. P., Cambridge, Mass. *Coleoptera of N. A.* Send stamp for list of species for ex.
46. AUSTIN, MRS. R. M. L., Quincy, Plumas Co., Cal. *Botany.* Ex.
47. AUXER, S. S., Lancaster, Pa. *Entomology: Coleoptera.*
48. AUXER, S., 150 So. Prince St., Lancaster, Pa. *Entomology.* Ex.
49. AVERILL, W. D., Chestnut Hill, Phila., Pa. *Conchology, Mineralogy.*
50. AYRES, J. H., 220 Carlton Ave., Brooklyn, N. Y. *Botany.* Ex.
51. BABBITT, R. L., Franklinton, Franklin Co., N. C. *Ophiology.*
52. BABCOCK, A. L., Sherborn, Mass. *Ornithology, Entomology.* Ex.
53. BABCOCK, H. H., Chicago, Ill. *Botany.*
54. BACHELDER, F., Lynn, Mass. *Mineralogy.*
55. BACON, A. Natick, Mass. *Botany: Fungi.*
56. BAGG, E. JR., Utica, N. Y. *Ornithology, Oology.*
57. BAILEY, G. I., Albany, N. Y. *Lepidoptera.*
58. BAILEY, PROF. G. E., Univ. of Nebraska, Lincoln, Neb. *Micro-Chem.*
59. BAILEY, H. B., Box 192 Newton, Mass. *Oology. Nests ets.* Ex.
60. BAILEY, J. S., M. D., 95 Eagle St., Albany, N. Y. *Lepidoptera.* Catocalæ desired.
61. BAILEY, PROF. L. W., Fredericton, N. B., Canada. *Botany, Local Geology.* Ex.
62. BAILEY, W. W., Teacher of Botany, Providence, R. I. *Botany.* Ex.
63. BAIRD, PROF. SPENCER F., 1445 New York Avenue, Washington, D. C. *Mammalogy, Ornithology, Ichthyology.*
64. BAKER, F. N., Cincinnati, Ohio. *Conchology.*
65. BAKER, H. B., Lansing, Mich. *Biology.*
66. BALLOU, N. E., M. D., Sandwich, Ill. *Arachnida, Ichthyology.* Ex.
67. BALLOU, W. H., Mexico, N. Y., *Ornithology, Oology.* Ex.
68. BANKS, CHAS. W., San Francisco, Cal. *Microscopy.*
69. BARBER, EDWIN A., West Chester, Pa. *Archæology.*
70. BARNARD, W. S., Canton, Ill. *Teacher of Geology, Zoölogy, Botany.*
71. BARNES, MRS. DR., 41 Green St., Syracuse, N. Y. *Filices.* Ex.
72. BARNES, C. R., Madison, Ind. *Botany.* Ex.
73. BARNES, WM., Decatur, Ill. *Lepidoptera.* Ex.
- ✓ 74. BARRETT, S. T., Port Jervis, N. Y. *Geology.* L. Helderberg fossils in ex. for Hamilton, Carb., Cret., and Ter. species.
- ✓ 75. BARRIS, REV. W. H., President Griswold Coll., Davenport, Ia. *Fossils. Crinoidea.*

Wm. Fikman Jr.

Detroit, Mich.

Wm. H. Atwood

Pacific Ave. Jersey City,
N.J.

Louis H. Hymé

896 Broadway. Room 12(?),
N.Y.C.
collect some time?

76. BASSETT, GEO. W., M. D., Vandalia, Ill. *Indian Relics, Mineralogy, Geology, Botany, Natural History.* Ex.
77. BASSETT, H. F., Waterbury, Conn. *Entomology*: Cyprinidæ, Ichneumonidæ and Gall producing insects of all orders. Ex.
78. BATES, G. A., Salem, Mass. *Microscopy.*
79. BATES, J. E., So. Abington, Mass., *Botany, Geology. Specialty Entomology.* Ex.
80. BAXTER, W. S., Adams Basin, Monroe Co., N. Y. *Botany.*
81. BAYLES, MASON, Mt. Pleasant, Ia. *Geology, Nat. Hist.*
82. BEACH, E. S., Hudson, Lenawee Co., Mich. *Geology, Mineralogy.* Lake Superior Copper for ex.
83. BEADLE, D. W., St. Catharines, Ontario, Canada. *Lepidoptera.*
84. BEAL, PROF. W. J., Agricultural Coll., Lansing, Mich. *Botany.* Trees, grasses and ferns.
85. BEAL, WM. S. Murphy, Cherokee Co., N.C. *Geology. Mineralogy,* Ex.
86. BEAN, F. E., Medford, Mass, *Taxidermist, Oology, Mineralogy.*
87. BEAN, THOS. E., Galena, Ill. *N. A. and European Lepidoptera: Butterflies.* Local Noctuidæ for ex.
88. BEAN, TARLETON H., M.D., Smithsonian Institution, Washington, D.C. *Zoölogy.*
89. BEARDSLEY, E. A., Zoölogical Student, Cornell Univ., Ithaca, N. Y.
90. BEAR, O. P., M. D., Richmond, Ind. *Geology, Palæontology, Botany General Zoölogy.*
91. BEAUCHAMP, REV. WM. M., Baldwinsville, Onondaga Co., New York. *Local Geology, Conchology.* Ex.
92. BEBB, M. S., Fountaindale, Wennebago Co., Ill. *Botany*: Solices.
93. BECHDALT, R. E., S. Bethlehem, Pa. *Botany.*
94. BECKETT, SYLVESTER B., Vice President Nat. Hist. Soc., Portland, Me. *Ornithology.*
95. BEHR, H. H., M. S., San Francisco, Cal. *Lepidoptera.*
96. BEHRENS, JAMES, P. O. Box 1173, San Francisco, Cal. *Entomology.*
97. BELFRAGE, G. W., Clifton, Bosque Co., Texas. *Entomology*: Hymenoptera of the World. *Crustacea*: Phyllopoda.
98. BELL, REV. GEO., B. A., LL. D., Walkerton, Ontario, Canada. *Botany, Geology.*
99. BELL, JAMES T., Prof. Min. and Agric., Albert Univ., Belleville, Ontario, Canada. *Mineralogy, Entomology, Microscopy.*
100. BÉLINGER, F. X., Larval Univ., Quebec, Canada. *Zoölogy, Entomology.* European insects in ex. for Cerambycidæ, Curculionidæ and Hemiptera.
101. BELSHAM, ARTHUR, Richmond, Wayne Co., Indiana. *Botany.* Ex. for Western, Southern and Coast Line species.
102. BEMENT, CLARENCE S., Philadelphia, Pa. *Mineralogy.*
103. BENDIVE, C. E., Capt. 1st Cav., U. S. Army, Camp Harvey, Oregon. *Oology.* Ex.
104. BENNER, J. F., New Lisbon, Columbiana Co., O. *Geology, Mineralogy.*
105. BENNETT, CHAS. E., Providence, R. I. *Local Botany.*
106. BENNETT, JAMES L., Providence, R. I. *Local Botany.* Desires ferns.
107. BERLIN, A. T., Reading, Pa. *Archæology, Antiquities.* Desires to ex. for specimens from Europe, Central America, and Peru.
108. BESSEY, C. E., Prof. Botany, Iowa Coll. of Agric., Ames, Iowa. *Botany.*
109. BETHUNE, C. J. S., Port Hope, Ontario, Canada. *Practical Entomology, Lepidoptera, Coleoptera.*
110. BICKMORE, ALBERT S., Supt. Am. Mus. Nat. Hist., Central Park, New York City. *General.*
111. BICKNELL, EDWIN, Cambridge, Mass. *Microscopy.*
112. BIDDLECOME, MISS H. J., Box 158, Springfield, Ohio. *Filices, Musci, Hepaticæ.* Ex.
113. BILLINGS, HOSMER H., Elmira, N. Y. *Entomology, Ornithology.*
114. BISCOE, PROF. T. D., Marietta, Ohio. *Microscopy.*

115. BISHOP, JAMES N., Plainville, Conn. *Botany*. Surveying and Landscape Gardening.
116. BLACKIE, GEO. S., A.M., M.D., Ph. D., Nashville, Tenn. *Prof. Botany*.
117. BLACKWELL, WM. B., New Tacoma, Washington Ter. *Conchology*.
118. BLAIR, THOS. O., New Castle, Henry Co., Ind. *Entomology: Coleoptera*.
119. BLAKE, REV. JOSEPH, Gilmanton, N. H. *Botany*. Ex.
120. BLAKE, E. J., North Bridgton, Maine. *Ornithology, Oölogy, Botany*.
121. BLAKE, C. J., M. D., Hotel Berkeley, Boston, Mass. *Osteology*. At present engaged in investigating the comparative anatomy of the osseous labyrinth in birds, and desires specimens.
122. BLAKE, JOHN M., New Haven, Conn. *Crystallography, Practical Optics, Scientific Application of Photography*.
123. BLAKE, WM. P., New Haven, Conn. *Mineralogy, Geology, Mining*.
124. BLANCHARD, FREDERICK, Lowell, Mass. *Coleoptera*.
125. BLATCHFORD, E. W., Pres. Acad. Sci., 375 N. La Salle St., Chicago, Ill.
126. BLEASDELL, WM., M. A., Trenton, Ont., Ca. *Geology, Palæontology*.
127. BLEW, A. H., Bound Brook, N. J. *Entomology*. Ex.
128. BLIVEN, R. H., Elmore, Ottawa Co., Ohio. *Microscopic Photography*.
129. BLOIS, J. T., Jonesville, Mich. *Ornithology. Biology*.
130. BLOOD, CHAS. L., Taunton, Mass. *General Taxidermist*.
131. BOARDMAN, E. R., M. D., Elmira, Stark Co., Ill. *Botany. Entomology*.
132. BOARDMAN, SAM'L L., Augusta, Maine. *Botany*.
133. BOCK, H. P., London, Ont., Canada. *Entomology*.
134. BOICE, CARRIE A., Camden, N. J. *Botany*.
135. BOLANDER, HENRY N., San Francisco, Cal. *Botany*.
136. BOLL, JACOB, Dallas, Texas. *Gen. Nat. Hist., Entomology*.
137. BOLLES, E. C., Salem, Mass. *Microscopy, Cryptogamic Botany*.
138. BOOTH, M. A., Longmeadow, Mass. *Marine Algæ*. N. E. Algæ in ex. for West Coast and Foreign species.
139. BORDEN, WM. W., Asst., Geol. Sur., New Providence, Clark Co., Ind. L. and U. Silurian and Devonian Corals for exchange.
140. BORDEN, J. E., Trenton Falls, N. Y., *Trenton fossils*.
141. BOSHART, C. FRED., Lawville, N. Y. *Oölogy, Taxidermist*.
142. BOTTER, A., Chicago, Ill. *Entomology*.
143. BOURNE, A. E., Sandwich, Ill. *Botany. Zoölogy*.
144. BOUGHTON, H. E., Castleton, Vt.
145. BOURLOUGH, E. W., Grimsby, Ont. Canada. *Botany*.
146. BOWERS, STEPHEN, A. M., Santa Barbara, Cal. *Geology, Archæology*. Pliocene fossils, Minerals. Marine, Land, and F. W. shells for ex.
147. BOWLES, GEO. J., Brit. Am. Bank Note Co., Montreal, Canada. *Entomology: Lepidoptera, Neuroptera*.
148. BOWDITCH, F. C., Brookline, Mass. *Entomology: Coleoptera of N.A.* Ex.
149. BOWMAN, E. H., M. D., Andalusia, Rock Island Co., Ill. *Geology*.
150. BOWMAN, SAM'L C., Kerrville, Kerr Co., Texas. *Geology, Ornithology, Taxidermy*.
151. BOWMAN, GEO. A., Vienna, Fairfax Co., Va. *Mineralogy*. Ex.
152. BOWER, WM., Cedar Rapids, Iowa. *Botany*.
153. BOYNE, OLIVER H., Earlham College, Richmond, Ind.
154. BRACKET, COL. A. G., U. S. Army, Ft. Sanders, Wyoming.
155. BRACKETT, GEO. E., Belfast, Me. *Entomology*.
156. BRACKWAY, A. P., Adrian, Mich. *Entomology*.
157. BRANDEGEE, T. S., Cañon City, Colo. *Botany*. Rocky Mt. Flora, N. A. Ferns and Mosses.
158. BRAGG, LUTHER C., Braggville, Worcester Co., Mass. *Zoölogy*. Invertebrates for exchange.
159. BRAKELEY, JOHN H., Ph. D., Bordentown, N. J. *Geology, Botany, Entomology*.
160. BRADLEY, SAMUEL B., West Greece, Monroe Co., N. Y. *Botany*.
161. BRAY, MRS. MARIA H., West Gloucester, Mass. *Conchology, Algæ*. Ex.



162. BRAYTON, A. W., Cook Co. Normal School, Englewood, Ill. *Botany*.
163. BREESE, JAMES L., 37 East 22nd St., N. Y. City. *Ornithology, Oölogy*.
164. BRENDEN, FRED., Peoria, Ill. *Botany, Comp. Anatomy*.
165. BREYLLINGER, F. J., Monticello, Green Co., Wis. *Birds of Wisconsin*.
166. BREWER, THOMAS M., 233 Beacon St., Boston, Mass. *Oölogical Ornithology*.
167. BREWER, WM. H., Prof. in Yale Coll., New Haven, Conn., *Botany*, (of Cal.), *Physical Geography, Microscopy*.
168. BREWSTER, WM., Cambridge, Mass. *Ornithology, Oölogy*. Skins for ex.
169. BREWSTER & KNOWLTON, 18 Arch St., Boston, Mass. *Mineralogy, Conchology, Zoölogy, Ornithology*.
170. BRIGGS, S. A., New Smyrna, Valusia Co., Fla. *Microscopy, Algæ*.
171. BRIGHAM, WM. T., Boston, Mass. *Botany, Semiology*.
172. BROADHEAD, GARLAND C., Pleasant Hill, Cass Co., Mo. *Geology*.
173. BROOKLYN ENTOMOLOGICAL SOC., 25 Broadway, Brooklyn, E.D., N. Y.
174. BRONS, HARRY A., Manhattan, Kans. *Coleoptera of W. Kansas*.
175. BROWN, C. D. W., Aurora, Kent Co., Ill. *Ornithology, Botany, Entomology*.
176. BROWN, DR. GEO. C., Mount Holly, N. J., *Ornithology*.
177. BROWN, J. E., Bangor, Me., *Ornithology, Oölogy*.
178. BROWN, NATHAN CLIFFORD, Portland, Me. *Ornithology*.
179. BROWN, GEO. N., JR., College of N. J., Princeton, N. J., *Microscopy*.
Diatoms and their Geological relations.
180. BROWN, R. H., Marcellus, Mich., *Ornithology, Entomology*.
181. BROWN, W. H., River Bend Station, Rush Creek Ranch, Cal. *Ornithology*.
182. BROWNE, GEO. E., Dedham, Mass. *Ornithology, Oölogy*.
183. BROWNELL, W. A., Syracuse, N. Y. *Geology, Botany*. Fossils and Minerals for ex.
184. BROWNING, F. T., Orange, N. J. *Ornithology, Oölogy*. Ex.
185. BRUNER, D. B., Reading, Pa. *Mineralogy, Ornithology, Archæology*.
186. BRUNER, LAWRENCE, West Point, Cuming Co., Neb. *Entomology*.
Papilionidæ desired in exchange.
187. BRUSH, PROF. G. I., New Haven, Conn. *Mineralogy*.
188. BRYANT, D. S., Box 330, San Francisco, Cal. *Ornithology*.
189. BRYANT, WALTER, Oakland, Cal., Box 330 San Francisco, Cal. *Oölogy*.
190. BUCHANAN, ROBERT, Cincinnati, Ohio. *Botany, Conchology*.
191. BUCK, STUART M., Coalburgh, W. Va. *Mining Engineer, Mineralogy*.
192. BUCKHOUT, WM. A., State College, Pa., *Geology, Botany, Zoölogy*.
193. BULLOCK, REV. M. G., LL. D., Ph. D., Watertown, N. Y. *Geology, Mineralogy, Palæontology*.
194. BUMSTEAD, FREEMAN J., M. D., 24 East 38th St., N. Y. City. *Botany*.
195. BUNDY, WILL. F., Sank City, Sank Co., Wis. *Fungi, Fresh Water Crustaceæ*. The latter in ex. for Cambori from East. & South. States.
196. BUNKER, F. STORY, Cambridge, Somerset Co., Me. *Botany, Microscopy*.
197. BUNKER, ROBERT, Rochester, N. Y. *Entomology: Lepidoptera, Diptera*.
198. BURBANK, L. S., Woburn, Mass. *Geology, Mineralogy, Lithology*,
Eozæan Canadense for exchange.
199. BURGESS, EDWARD, Sec'y Nat. Hist. Soc., Boston, Mass. *Entomology*.
200. BURK, ISAAC, Philadelphia, Pa. *Botany*. Local.
201. BURKE, JOSEPH C., Teacher Nat. Sci. Wesleyan Academy, Wilbraham, Mass. *General*.
202. BURNETT, S. M., Washington, D. C. *Microscopy*.
203. BURRILL, T. J., Prof. Botany in Ill. Ind. Univ., Urbana, Ill. *Entomology, Microscopy, Botany: Fungi*.
204. BUSHEE, JAMES, Worcester, Mass. *Geology, Mineralogy*. Ex.
205. BUSH, GEO. J., New Haven, Conn. *Mineralogy*.
206. BURT, CHAS. A., Wallingford Community, Conn. *Mineralogy*.
207. BUTTON, L. F., State Univ., Oakland, Cal. *Mollusca*. Pacific Coast species in exchange for foreign specimens.

208. BUTTERFIELD, WILL. W., M. D., Indianapolis, Ind. *Botany. Phytotomy.*
209. BYRKIT, JOHN W., Indianapolis, Ind. *Conchology, Entomology.* Ex.
210. BYRNES, R. M., Cor. 5th & Race Sts., Cincinnati, Ohio. *Mineralogy, Palæontology, Indian Relics.*
211. BYERS, WM. N., Denver, Col.
212. CALKINS, WM. W., Chicago, Ill. *Conchology, Botany.*
213. CALLIN, ALONZO, Prof. Nat. Sci., Cornell Coll., Mount Vernon, Ia.
214. CALVIN, SAMUEL, Iowa City, Ia. *Geology, Zoölogy.* Specially interested in Invertebrate Palæontology.
215. CAMERON, G. JR., Buffalo, N. Y. *Entomology.*
216. CAMPBELL, GEO. W., Delaware, Ohio. *Microscopy, Botany, Hybridizing.*
217. CANBY, WM. M., 1101 Delaware Ave., Wilmington, Del. *Botany.* Desires Southern and Western species.
218. CANDEE, F. J., Moline, Ill. *Mineralogy, Geology.*
219. CANDY, THOMAS JR., Guelph, Ont. Canada. *Ornithology.*
220. CANEDAY, D. A., Taylors Falls, Chisago Co., Min., *Geology.*
221. CANFIELD, FREDERICK A., Dover, N. J. *Mineralogy.* Ex.
222. CARL, CHAS. B., Greencastle, Pa. *Entomology.*
223. CARPENTER, G. C., Prof. in S. S. Coll., Indianola, Warren Co., Ia. *Geology, Nat. Hist.*
224. CARPENTER, H. F., Providence, R. I. *Mineralogy, Conchology.*
225. CARPENTER, PHILIP P., B. A., Ph. D., Montreal, Canada. *Recent and Fossil Malacology.*
226. CARTER, ED., Breckenridge, Summit Co. Cal.
227. CARWEIN, JNO. D., Cor. 57th and 7th St., Louisville, Ky. *Mineralogy, Geology.* Minerals for exchange.
228. CASE, L. B., Sec. State Archaeological Assoc., Richmond, Ind. *General.*
229. CARRYL, FRANK M., Franklin, N. J., *Ornithology, Oölogy.* Exchange in sets for rare species.
230. CASSINO, SAMUEL E., Peabody Academy of Science, Salem, Mass. *Entomology.* Desires specimens of Mallophaga from all birds and mammals, specially from the South and West.
231. CASTLE, D. M., M. D., 2007 Arch St., Phila., Pa. *Coleoptera and Lepidoptera.*
232. CATLIN, J. C., Ravenna, Ohio. *Ornithology.* General collector.
233. CHAMBERLIN, H. B., Syracuse, N. Y. *Microscopy.*
234. CHAMBERLIN, T. C., Beloit, Wis. *Geology, Zoölogy, Botany.*
235. CHAMBERS, V. T., Covington, Ky. *Entomology.*
236. CHAN, THEO. R., Detroit, Mich., *Geology, Mineralogy.*
- ✓ 237. CHAPMAN, W. H., Peoria, Ill. *Geology, Palæontology.* Fossils from Coal Fields in ex. for Cret. or Ter. species.
238. CHASE, CHAS. A., Worcester, Mass. *Palæontology.*
239. CHASE, MRS. CORA, Wells, Elko Co., Neb. *Entomology.* Ex.
240. CHASE, D. H., M. D., Louisville, Clay Co., Ill. *Botany.*
241. CHASE, J. E., L. B. 46 Holyoke, Mass., Mass. *Lepidoptera, Coleoptera, Oölogy.*
242. CHASE, R. STEWART, Haverhill, Mass. *Microscopy.*
- ✓ 243. CHASE, DR. S. F., 214 1-2 Essex St., Salem, Mass. *Mineralogy.*
- ✓ 244. CHESTER, ALBERT H., Clinton, Oneida Co., N. Y. *Mineralogy.* Minerals for exchange.
245. CHESEBRO, DENISON S., Syracuse, N. Y. *Conchology.*
- ✓ 246. CHENEY, PROF. T. A., LL. D., Lib. Georgic Lib., Starkey, Yates Co., N. Y. *Ethnology, Geology, Palæontology.*
247. CHESHIRE, WM. W., Crown Point, Laka Co., Ind.
248. CHICKERING, PROF. J. W. JR., Deaf Mute College, Washington, D. C. *Botany.* Plants of D. C. and White Mts.
249. CHRIST, RICHARD, Nazareth, Pa. *Oölogy, Indian Relics, Butterflies, etc.*
250. CHURCH, A. M., Lyons Falls, N. Y. *Ornithology.*



251. CLARKE, DANIEL, M. D., Flint, Mich. *Botany*. Local species in exchange for Southern, Western, or Foreign plants.
252. CLARK, J. H., Reed City, Osceola Co., Mich. *Entomology*.
253. CLARK, SIMEON TUCKER, A. M., M. D., *Conchology*. Shells, Minerals and Fossils in exchange for Gulf, and West Coast species.
254. CLARK, W. P., Milton, Rock Co., Wis. *Archæology*. Implements from Rock River valley in exchange for others.
255. CLEVELAND, DANIEL, San Diego, Cal. *Botany: Ferns, Marine Algæ*. Exchange.
256. CLEMENTI, REV. VINCENT, B. A., Peterboro, Ont., Canada. *Local Lepidoptera: Coleoptera, Botany; Ornithology*.
257. CLENEAY, THOMAS, Cincinnati, Ohio. *Archæology*.
258. CLINTON, GEO. W., Buffalo, N. Y. *Botany*.
259. COALE, H. K., 1061 Wabash Ave., Chicago, Ill. *Ornithology*. Ex.
260. COCHRANE, J., Havana Mason Co., Ill. *Botany, Veg. Physiology*.
261. COFFINBERRY, W. L., Grand Rapids, Mich. *Archæology*.
262. COLES, CHAS. E., Marshall, Mich. *Ornithology, Oölogy, Taxidermy*.
263. COLEMAN, NATHAN, Berlin, Conn. *Botany, Entomology*. Ex.
- ✓ 264. COLLETT, JOHN, Asst., State. Geol. Sur., Newport, Ind. *Geology and Am. Antiquities*. Am. fossils in exchange for foreign.
265. COLLINS, W. H., Detroit, Mich. *Ornithology, Oölogy, Taxidermy*.
266. COMMONS, ALBERT, Centreville, Del. *Botany*.
267. COMSTOCK, J. HENRY, B. S., Asst. Prof. of Entomology, and Lecturer on Invertebrate Zoology in Cornell Univ., Ithaca, N. Y. *Economic Entomology*. Ex.
268. COMSTOCK, THEO. B., Asst. Prof. in charge of Dept. Geol. and Palæontology, Cornell Univ., Ithaca, N. Y. Minerals from Yellowstone Park, and fossils from N. Y., State Devonian in exchange for fossils, rocks, minerals.
269. CONRAD, T. A., Philadelphia, Pa. *Mollusks*.
270. CONGDON, J. W., East Greenwich, R. I. *Botany*. Exchange desired in West and South.
271. CONKLIN, WM. A., Director Central Park, N. Y. City. *Mammalia*.
272. CONANT, W. A., Wenham, Mass. *Botany*.
273. COOKE, CALEB, P. A. S., Salem, Mass. *Invertebrates*.
274. COOLRIDGE, BALDWIN, Lawrence, Mass. *Ornithology, Oölogy, Archæology*.
275. COOK, A. J., Prof. in Agric. Coll., Lansing, Mich. *Zoölogy, Economic Entomology*. Exchange.
276. COOPER, ELLWOOD, Santa Barbara, Cal. *Amateur Botanist, Semi-Tropical Fruit Culturist, Forest Trees*.
277. COOPER, MRS. ELLWOOD, Santa Barbara, Cal. *Botany*.
278. COOPER, J. G., Haywood, Alameda Co., Cal. *Vertebrate Zoölogy, Mollusca, Botany, Geology*.
279. COOPER, GEO. P., P. O. Box 860, Topeka, Kans. *Coleoptera*.
280. COOPER, WM. A., Santa Cruz, Cal. *Oölogy, Ornithology*. Ex.
281. COON, PROF. G. W., 7 Hardy Block, Cleveland, Ohio. *Microscopy*.
- ✓ 282. COPE, PROF. EDW. D., Philadelphia, Pa. *Natural History, and Palæontology of Vertebrates*.
283. CORY, CHAS. B., 8 Arlington St., Boston, Mass. *Ornithology*. Ex.
284. CORTHELL, W. G., 8 Columbus Sq., Boston, Mass. *Microscopy*. Slides for exchange. Lists exchanged.
- ✓ 285. CORWIN, R. W., Asst. in Mich. Univ., Ann Arbor, Mich. *Comp. Anatomy, Histology*.
- ✓ 286. COUES, ELLIOTT, Washington, D.C. *Zoölogy, Comparative Anatomy*. Desires to exchange publications. *No specimens*.
287. COULTER, JOHN M., Hanover, Md. *Botany*. Editor "Botanical Gazette". Ex.
288. COUPER, WM., 67 Bonaventure St., Montreal, Canada. *Northern Quadrupeds, Birds, Fishes, Fossils*.
289. COWLES, SAMUEL N., Otisco, N. Y. *Botany, Entomology*.

290. COXE, ECKLEY B., Drifton, Jeddo P. O. Luzerne Co., Pa. *Mining Engineer.*
- ✓ 291. COX, E. T., State Geologist. Indianapolis, Ind. *Geology.*
292. CRANE, PROF. E. H., Colon, Mich. *General. Mound-builders and Pre-Historic races.*
293. CRANS, JAMES F., Indianapolis, Ind. *N. A. Mollusks.*
294. CRAPNELL, WM. B., New Boston, Mercer Co. Ill. *Ornithology. Ex.*
295. CRESSY, NOAH, M. D., Amherst, Mass. *Comp. Anatomy, Ornithology.*
296. CRESSON, E. T., P. O. Box 31, Philadelphia, Pa. *Hymenoptera.*
297. CROFT, CLAYTON I., Fountain, El Paso Co., Colo. *Mineralogy. Ex.*
298. CRÖSBY, W. O., Nat. Hist. Soc., Boston, Mass. *Local Geology.*
299. CROSIER, DR. E. S., Louisville, Ky. *Botany, Microscopy.*
300. CROSS, CHAS. W., 3725 Lancaster Ave., Philadelphia, Pa. *Mineralogy.*
301. CURRIER, A. O., Grand Rapids, Mich. *Entomology, Geology. Specialty Conchology.*
302. CURRIER, JOSEPH C. Cincinnati, Ohio. *Geology.*
303. CURRIER, W. O., Providence, R. I. *Mineralogy.*
304. CURTIS, DR. JOSIAH. Washington, D. C. *Nat. Hist., Microscopy.*
305. CUSHING, G. W., Cambridge, Mass. *Coleoptera.*
306. CUTTING, HIRAM A., A. M., M. D., State Geologist, Lunenburg, Essex Co., Vt. *Microscopy. Geology.*
307. CUTLER, DR. S. P., Memphis, Tenn. *Microscopy.*
308. DABOLL, D. A., Jr., Centre Groton, Conn. *Botany.*
309. DAGGETT, ALFRED. New Haven, Conn. *Natural History.*
310. DAGGETT, KATE N., 2 Holmes Place, Cambridge, Mass. *Botany.*
311. DALL, WM. H., Smithsonian Institution, Washington, D. C. *Mollusca, American Ethnology.*
312. DALRYMPLE, REV. E. A., S. T. D., Baltimore, Md. *Archæology, Philology.*
313. DAME, L. L., Medford, Mass. *Botany.*
- ✓ 314. DANA, EDWARD S., New Haven, Conn. *Geology, Mineralogy.*
- ✓ 315. DANA, JAMES D., New Haven, Conn. *Geology, Mineralogy.*
316. DAVENPORT, GEO. E., 8 Hamilton Place, Boston, Mass. *Botany, Filices. Ex.*
317. DAVIDSON, H. M., Ogdensburg, N. Y. *Natural History, Ornithology.*
318. DAVIE, OLIVER, Columbus, Ohio. *Ornithology.*
319. DAVIS, MRS. ABBIE L., Gloucester, Mass. *Algæ. Ex.*
320. DAVIS, B. T., Chetopa, Kansas. *Entomology.*
321. DAVIS, GEO. A., Mexico, N. Y. *Taxidermy.*
322. DAVIS, HENRY. McGregor, Clayton Co., Ia. *Geology, Gen. Nat. Hist.*
323. DAVIS, H. WINTER, 227 Market St. Philadelphia, Pa. *Medicinal Botany, Microscopy.*
324. DAVIS, J. J., Vinton, Benton Co., Iowa. *Botany.*
325. DAVIS, NATHAN S., Evanston Ill. *Herpetology, Mammalogy,*
326. DAVIS, W. M. Jr., Cambridge, Mass. *Acuelate Hymenoptera.*
327. DAVIDSON, MRS. C. G., P. O. Box 111 Louisville, Ky., *Botany.*
- ✓ 328. DAWSON, GEO. M., Montreal, Canada. *Geology.*
- ✓ 329. DAWSON, JOHN WILLIAM, LL. D., F. R. S., Montreal, Canada. *Geology. Palæontology.*
330. DAY, DAVIS F., Buffalo, N. Y. *Botany.*
331. DAY, F. H., M. D., Wauwatosa, Wis. *Palæontology. Silurian fossils for exchange.*
332. DEANE, RUTHVEN, Cambridge, Mass. *Ornithology, Oölogy.*
333. DEATRICK, W. WILBERFORCE, Mercersburg, Franklin Co., Pa. *Botany. Ex.*
- ✓ 334. DEBECK, D. W., Cincinnati, Ohio. *Palæontology. Vertebrate fossils desired in exchange for fossils of Cinn. Group.*
335. DENSLOW, HERBERT M., New Haven, Ct. *Botany.*



336. DENTON, JNO. M., London, Ont., Canada. *Entomology*. Coleoptera and Lepidoptera for exchange.
- ✓ 337. DERBY, O. A., Cornell Univ., Ithaca, N. Y. *Geology*. (Absent in Brazil.)
338. DERRY, C. W., Twin Lakes. (via Granite) Lake Co., Col. *Ornithology*.
339. DEVEREAUX, W. L., Clyde, Wayne Co., N. Y., *Entomology: Curculionidae and Noctuidæ*.
- ✓ 340. DICKINSON, G. K., M. D., Jersey City, N. J. Medical Sciences.
341. DICKINSON, E., 73 Spring St., Springfield, Mass. *Ornithology. Oölogy*.
342. DICKINSON, I. L., Shaw's Flat, Tuolumne Co., Cal. *Mollusca, Mineralogy*. Western in exchange for Eastern species.
343. DICKINSON, T. A., Supt. Cabinet, Nat. Hist. Soc., Worcester, Mass. *Entomology*.
344. DIETZ, WM. G., M. D., Hazleton, Luzerne Co., Pa. *Entomology, Microscopy*. Coleoptera and Diatoms for exchange.
345. DIMMOCK, GEORGE, Cambridge, Mass. *Entomology: Coleoptera*.
346. DIMMICK, L. N., M. D., Santa Barbara, Cal. *Conchology, Marine Algae*.
347. DIXON, GEORGE, Hampton, Va. *Botany, Conchology*. British shells in exchange for American.
348. DIXWELL, JOHN, M. D., Boston, Mass. *Osteology, Birds, Fishes, Reptiles*.
349. DOBBINS, GEO. W., Baltimore, Md. *Gen. Nat. Hist., Microscopy*.
350. DODGE, CHAS. R., (Ed. Field and Forest). Asst. Ent., Dept. Agric., Washington, D. C. *Economic Entomology*.
351. DODGE, E. A., Glencoe, Dodge Co., Neb. *Entomology*. Butterflies desired.
352. DODGE, G. M., Glencoe, Dodge Co., Neb. *Entomology*. Insects of any order given in exchange for butterflies of the U. S. and rare species of Catocala and Heliothis.
353. DOHERTY, WM., 161 Third St., Cincinnati, Ohio. *Land and F. W. Mollusca*. Ex.
354. DOLL, JACOB, 74 Graham Ave., Brooklyn, N. Y. *Butterflies of the World*.
355. DORRANCE, CHAS. E., Scotts, Kal. Co., Mich. *Lepidoptera, Coleoptera*. Ex.
356. DORSCH, EDWARD, M. D., Monroe, Mich. *Entomology, Conchology, Palæontology, Anthropology*.
357. DOUGLAS, J. S., A. M., M. D., Ph. D., Milwaukee, Wis. *Botany*.
358. DOUGLASS, WALTER, Mt. Auburn, Cincinnati, Ohio. *Oölogy*. Ex.
359. DOWNS, C. A., Lebanon, N. H. *Mineralogy*.
360. DOWNS, C. A. JR., Lebanon, N. H., *Ornithology, Taxidermy*.
361. DRYER, CLARENCE M., Lawrence, Mass. *Ornithology*.
362. DRYER, CHAS. R., M. D., Victor, Ont., Canada. *Local Botany, Geology*.
363. DUBOIS, GEO., Oxford, Butler Co., Ohio. *Ornithology, Entomology*.
364. DUDLEY, WM. R., Ithaca, N. Y. *Botany*.
365. DUEMLING, PROF. DR. H., Concordia Coll., Ft. Wayne, Ind. *Zöology*. Birds for exchange.
366. DUNBAR, S. M., Baldwinsville, N. Y. *Ornithology*. Birds, Nests and Eggs for exchange.
367. DUNN, G. W., San Francisco, Cal. *Coleoptera*.
368. DUPRE, COL. L. J., Austin, Tex. *Anthropology*.
369. DURY, CHARLES, Cincinnati, Ohio. *Ornithology, Conchology, Lepidoptera, Coleoptera*. Ex.
- ✓ 370. DUTTON, CAPT. C. E., U. S. A., Ordnance Dept., Washington, D. C. *Dynamical Geology*. Igneous rocks.
371. DYER, C. B., Mt. Harrison, Cincinnati, Ohio. *Geology, Palæontology*.
372. EAGER, W. W., West Newton, Mass. *Ornithology*.
373. EATON, PROF. DANIEL C., New Haven, Conn. *Botany. Ferns and Marine Algae*.
374. EATON, D. H., Peotone, Ill. *Ornithology*. Minerals etc. for ex.
375. ECKFELDT, JOHN W., M. D., Haverford, Del. Co., Pa. *Entomology*.
376. EDDY, CHAS. W., Ware, Mass. *Ornithology*.

377. EDES, RICHARD S., Bolton, Mass. *Anthropology, Zoölogy.*
378. EDWARDS, A. MEAD, M.D., Newark, N.J. *Microscopy, Diatomacæ.* Ex.
379. EDWARDS, THOMAS C., Vineland, N. J. *Anthropology, Practical Sciences.*
380. EDWARDS, WM. H., Coalburgh, W. Va. *Diurnal Lepidoptera of N. America.*
381. EDWARDS, WM. S., Natick, Mass. *Ornithology, Mineralogy, Botany: Filices.*
382. EGAN, W. C., 216 S. Morgan St., Chicago, Ill. *Geology.*
383. EGGLESTON, THOMAS, N. Y. City. Prof. of *Mineralogy and Metallurgy.* School of Mines, Columbia College, New York City.
384. EICHE, MARTIN, Passaic, N. J. *Botany: Gramineæ.* Exchange.
385. ELDER, WM., Prof. Nat. Sci., Waterville, Kennebec Co., Me.
386. ELLIOTT, E. E., Morning Sun, Preble Co., O. *Geology, Palæontology.* Exchange.
387. ELLIOTT, JNO. B. M. D., Sewanee, Tenn. *Conchology, Mineralogy.*
388. ELLIOTT, MARCELLUS JR., Rome, Pa. *Entomology, Ornithology.* Ex.
389. ELLSWORTH, E. W., East Windsor Hill, Conn. *Ornithology.*
390. ELMORE, SAM'L E., Hartford, Conn. *Ornithology.*
391. ELSBERG, LOUIS, New York City. *Laryngology, Anthropology.*
- ✓ 392. EMERSON, BEN. K., Amherst, Mass. *Prof. Geology and Zoölogy,* Amherst College.
393. EMERSON, GEO. B., 3 Pemberton Sq., Boston, Mass. *Trees.*
394. EMERSON, JOSEPH S., Newton, Mass. *Conchology.*
395. EMERTON, JAMES H., Salem, Mass. *Arachnida.*
396. ENGELMANN, GEO., M. D., 3003 Locust St. St. Louis, Mo. *Botany.*
397. ERNST, REV. C. W., A. M., Providence, R. I. *Phonetics.*
398. EVANS, JOHN D., Belleville, Ont., Canada. *Entomology, Microscopy.*
399. EVERETT, OLIVER, M. D., Dixon, Lee Co., Ill. *Geology, Botany.* Western plants and fossils in exchange for Eastern.
400. FAIRBANKS, FRANKLIN, St. Johnsbury, Vt. *Mineralogy, Ornithology.*
401. FAIREY, RICHARD, Box 289, St. John, N. B.. *Entomology, Taxidermy.*
402. FALES, J. C., Danville, Ky. *Geology, Zoölogy.*
403. FARLOW, PROF. W. G., Boston, Mass. *Botany: Cryptogams.*
404. FARNELL, WM., Brooklyn N. Y. *Microscopy: Infusoria, Pond Life.*
405. FARNELL, W., 635 Vanderbilt Ave., Brooklyn, N. Y. *Microscopy.*
406. FARQUHARSON, ROBERT JAMES, Davenport, Ia. *Anthropology.*
407. FAUGHT, V. R., Elvaston, Hancock Co., Ill. *Geology, Entomology.* Ex.
408. FAXON, CHAS. E., Boston, Mass. *Botany.*
409. FEBIGER, CHRISTIAN, Wilmington, Del. *Microscopy, Diatomacæ.*
410. FELDMAN, HENRY, 516 Dudley St., Phila., Pa. *Entomology: Coleoptera.*
411. FENTON, ELISHA, Grampian Hills, Pa. *Archæology.*
412. FERNALD, PROF. C. H., Orono, Me. *Gen. Nat. Hist., Entomology, Infusoria.*
413. FERRISS, F. E., Plainessville, Lake Co., Ohio. *Geology.*
414. FERRISS, J. E., Plainessville, Lake Co., Ohio. *Botany.*
415. FEWKES, A. H., Ipswich, Mass. *Hymenoptera.*
416. FILLARIS, CHAS. S., Chicago, Ill. *Microscopy, Diatoms and Algæ.*
417. FISCHER, I., Ph., 597 Michigan St., Buffalo, N. Y. *Lepidoptera.*
418. FISHER, ALBERT K., Sing Sing, N. Y. *Ornithology.*
419. FISHER, H. I., Richmond, Ind. *Archæology, Zoölogy.*
420. FITCH, ASA, M. D., (late N. Y. State Entomologist) Salem, Washington Co., N. Y. *Entomology: Botany.*
421. FITCH, E. H., Editor "Scientific Monthly," Toledo, Ohio. *Ornithology.*
422. FLANNER, THO. U., M. D., Springfield, Greene Co., Mo. *Anatomy, Physiology, Microscopy: Diatoms.*
423. FLINT, MRS. C. C., Richmond, N. H. *Entomology.* Ex.
424. FLINT, WM. F., Winchester, N. H. *Botany.*
425. FOLSAM, A. C., M. D., Snohomish City, Wash. Terr. Supt. Sci. Dept. Snohomish Athenæum. *Gen. Natural History.* Exchange.



- 426. FONTARIVE, EMILE, Boston, Mass. *Microscopy*.
- ✓ 427. FOORD, ARTHUR H., Montreal, Canada. *Geology*, Palæontological Artist to Geol. Sur. of Canada.
- ✓ 428. FOOT, E. A., Philadelphia, Pa. *Geology*, *Botany*, *Mineralogy*.
- 429. FOOTE, LEWIS, 39 Tremont St., West Detroit, Mich. *Botany*.
- 430. FORBES, PROF. S. A., Normal, Ill. *Zoölogy* of Ill. Crustacea.
- 431. FORBUSH, EDWARD H., 196 Union St., Worcester, Mass. *Ornithology*, *Zoölogy*.
- 432. FORD, CHAS. H., Geneseo, Henry Co., Ill. *Botany*.
- 433. FORMANN, J. B., 1150 S. 7th St., St. Louis, Mo.
- 434. FOSTER, HENRY, M. D., Clifton Springs, Ontario Co., N. Y.
- 435. FORTHERINGHAM, REV. THOS. F., M. A., Norwood, Ont., Canada. *General*.
- 436. FOWLER, AUGUSTUS, Danvers, Mass. *Oölogy*.
- 437. FOWLER, H. G., Auburn, N. Y. *Ornithology*, *Oölogy*.
- 438. FOWLER, SAM'L T., Danvers, Mass. *Ornithology*.
- 439. FRANKLIN, G. S., A. M., M. D., Chillicothe, Ross Co., O. *Entomology*.
- 440. FRANKLIN, WM. E., M. D., La Grange, Fayette Co., Tenn. *Botany*. Ex.
- 441. FRAINE, THOS. W., Rochester, N. Y. *Taxidermy*, *Zoölogy*.
- 442. FREEDLEY, W. G., 210 S. 24th St., Phila., Pa. *Ornithology*, *Oölogy*.
- 443. FREEMAN, H. C., Alto Pass., Union Co., Ill. *Geology*, *Civil and Mining Engineer*.
- 444. FRENCH, PROF. G. H., Irvington, Ill. *Botany*. Sets of Colorado plants in exchange for named marine shells.
- 445. FRENCH, G. H., Davenport, Ia. *Local Archæology and Ethnology*.
- 446. FRIEDLANDER & SOHN, II Carlstrasse, Berlin, Germany, *Scientific Booksellers*.
- 447. FRISTOE, E. T., Washington, D. C. *Natural History*.
- 448. FROST, CHAS. C., Brattleboro, Vt. *General Botany*.
- 449. FUCHS, CHAS., 24 Bond St., N. Y. City. *Coleoptera: Lucanidæ, Scarabæidæ*.
- 450. FULLER, A. N., Hermosa, La Plata Co., Col. *Geology*, *Zoölogy*.
- 451. FULLER, A. S., Ridgewood, Bergen Co., N. J. *Entomology: Coleoptera, Botany: Fruits and Forest Trees*.
- 452. FULLER, FRANK H., Needham, Mass. *Entomology*.
- 453. FULLER, L. A., Springfield, Ill. *Geology*, Fossils for exchange.
- 454. FULLER, OSGOOD E., Camden, Me. *Geology*, *Mineralogy*, *Zoölogy*, *Botany*. Exchange.
- 455. GAGE, S. H., Student in Natural History, Cornell University, Ithaca, N. Y. *Zoölogy*.
- 456. GAUMER, GEORGE F., Lawrence, Kan. *Entomology*. Desires Diptera in exchange.
- 457. GANNETT, HENRY M. E., U. S. Geol. Survey, 509 7th St., Washington, D. C. *Topographical Engineer*.
- 458. GARBER, A. P., M. D., Columbia, Pa. *Botany*.
- 459. GARMAN, S. W., Mus. Comp. Zoölogy, Cambridge, Mass. *Herpetology and Ichthyology*.
- 460. GATTINGER, A., M. D., Nashville, Tenn. *Botany*, *Geology*,
- 461. GEARN, WALTER A., Troy, N. Y. *Entomology*.
- 462. GEDDES, G. C., Montreal, Canada. *Entomology*.
- 463. GEHRING, J. GEORGE, 397 Pearl St., Cleveland, Ohio. *Entomology: Coleoptera*. Florida specimens for exchange.
- 464. GENTRY, THOS. G., Germantown, Philadelphia. *Ornithology*, *Botany*, *Ethnology*. Exchange.
- 465. GERARD, CHAS. B., P. O. Box 4763 New York City. *Botany*.
- 466. GERARD, WM. R., P. O. Box 4763, New York City. *Mycology*, *Cryptogamic Botany*.
- 467. GESNER, WM., Birmingham, Jefferson Co., Ala. *Zoölogy*, *Mineralogy*. Exchange.
- 468. GIBBS, HOWARD, Guelph, Ont., Canada. *Birds*, *Mammals*, *Fish*.

469. GIBSON, WM., Newport, Ind. *Geology*. Ind. and Ill. Carboniferous fossils for exchange.
470. GIFFORD, MRS. HENRY S., Syracuse, N. Y. *Botany: Filices*.
471. GILBERT, DEXTER W., Keene, N. H. *Mineralogy, Geology, Botany*.
472. GILBERT, ELIZA J. C., Keene, N. H. *Botany*.
- ✓ 473. GILBERT, G. K., P. O. Box 806, Washington, D. C. *Geology*.
474. GILL, THEO., M. D., Ph. D., Smithsonian Inst., Washington, D. C. *Zoölogy: Mammals, fishes and mollusks*.
- ✓ 475. GILPIN, EDWIN, F. G. S., Halifax, N. S. *Mining Engineer, Local Geology*.
476. GIRARD, J. B., Asst. Sur., U. S. A., Fort Wayne, Mich. *Botany, Ornithology*.
477. GISSLER, CARL F., Brooklyn, E. D., N. Y. *Coleoptera of U. S. Tenebrionidæ and allies*.
478. GLASCO, J. M., Gilmer, Texas. *Mineralogy, Botany*.
479. GLOVER, TOWNSEND, Dept. of Agric., Washington, D. C. *Entomology*.
480. GOEPFER, CHAS. D., Louisville, Ky. *Mineralogy*.
481. GOLDSMITH, E., 720 W. 9th St., Phila., Pa. *Mineralogy*.
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490. GRAHAM, F., E. M., 2615 Pine St., St. Louis, Mo. *Mineralogy*. Ex.
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492. GRAVES, GEO. H., Dubuque, Ia. *Ornithology*.
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503. GREENLEAF, R. C., 28 Newbury St., Boston, Mass. *Microscopy*.
504. GREENWOOD, JAMES JR., Clinton, Mass. *Entomology*.
505. GREGG, WM. H., M. D., Elmira, N. Y. *Ornithology*.
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507. GREGORY, J. J. H., Marblehead, Mass. *Mineralogy, Ethnology*.
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520. HAGENY, JOHN H., 350 E. N. Y. St., Indianapolis, Ind. *Conchology.* Exchange.
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537. HAMPTON, C. J., Junius, Seneca Co., N. Y. *Ornithology.*
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539. HANKS, HENRY G., P. O. Box 1180, San Francisco, Cal. *Mineralogy, Palæontology.*
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541. HARDY, DR. J. F. E., Ashville, Buncombe Co., N. C. *Conchology.*
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550. HARVEY, DR. LEON F., Buffalo, N. Y. *Entomology.*
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557. HATCH, MR. & MRS. DELOSS, Oak Centre, Fond Du Lac Co., Wis. *Taxidermy.* Exchange.
558. HATCH, P. L., M. D., Minneapolis, Minn. *Ornithology.*

559. HAUPT, J. G., Davenport, Iowa. *Botany*.
 560. HAUKENSON, E. L., Newark, N. J. *Botany*. Exchange.
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 563. HAZELTINE, CHAS. S., Grand Rapids, Mich. *Entomology*.
 564. HAZELTINE, GILBERT W., M. D., Jamestown, N. J. *Botany*, *Entomology*.
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 566. HEDGE, FREDERICK H. JR., Lawrence, Mass. *Botany*.
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 576. HERDMAN, W. J., M. D., Ann Arbor, Mich. *Anatomy*, *Physiology*.
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 584. HIGBEE, CHARLES H., Salem, Mass. *Mineralogy*, *Microscopy*, *Cryptogamic Botany*.
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 587. HILGARD, E. W. Univ. of Cal., Oakland, Cal. *Geology*, *Agr. Science*.
 ✓ 588. HILL, FRANKLIN C., Princeton, N. J. *Geology*. Entomological Draftsman.
 589. HILL, DR. H. H., Cincinnati, O. *Archæology*, *Geology*.
 590. HIMES, DR. ISAAC N., Prof. Medical Coll., Cleveland, O. *Human Physiology*, *Pathological and Physiological Histology*.
 591. HINDS, J. I. D., A.M., C.E., Prof. Nat. Sci., Cumberland Univ., Lebanon, Tenn. *Geology*.
 592. HINE, F. B., Student in Natural History, Cornell Univ., Ithaca, N. Y.
 593. HINKLEY, HOLMES, I., Fairfield St. Boston, Mass. *Lepidoptera*.
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 598. HOBBS, CHAS. E., Somerville, Mass. *Botany*, *Diatomaceæ*.
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606. HOLMAN, F. A., M. D., San Francisco, Cal. *Ornithology, Microscopy*.
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608. HOLMES, PROF. FRANCIS S., Charleston, S. C. *Geology, Zoölogy*. ✓
609. HOLMES, MISS MARY E., Rockford, Winnebago Co., Ill. *Botany*. Ex.
610. HOLMES, REV. THOS., D. D., Ann Arbor, Mich.
611. HOLMES, BAYARD T., Owatonna, Steele Co., Minn. *Comparative Zoölogy*.
612. HONEYMAN, REV. D., D. E. L., F. G. S., Sec. Nova Scotia Inst. Nat. Sci., Halifax, N. S. *Geology*. ✓
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615. HOOPER, HENRY T., Martin's Station, Pulaski Co., Va. *Taxidermy*.
616. HOOPER, F. W., Wapole, Cheshire Co., N. H. *Comp. Anatomy, Physiology, Algæ*. Exchange.
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627. HOYT, BROOKS F., Iowa City, Ia. *Palæontology*. Exchange.
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635. HUDUNT, E. L., P. O. Box 704, Orange, N. J. *Oölogy, Ornithology*. Exchange.
636. HUME, JOHN, Davenport, Ia. *Ethnology, Geology*.
637. HUMPHREY, FRED, Lawrence, Mass. *Ornithology, Taxidermy*.
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648. HUSTON, SAM, Richmond, O. *Geology*.
649. HYAMS, M. E., Statesville, N. C. *Botany*. Exchange.

650. HYATT, J. D., Morrisania, N. Y. City. *Botany, Microscopy.*
 651. HYATT, ALPHEUS, Boston, Mass. *Fossil Cephalopods, Sponges.*
 652. ILLIG, HIRAM L., Millbach, Lebanon Co., Pa. *Archæology.*
 653. INGERSOLL, ERNEST, 17 Chatham St., N. Y. City. *Zoölogy.*
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 659. JAMES, DAVIS L., 177 Race St., Cincinnati, Ohio. *Botany.*
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 661. JAMES, JOSEPH F., 177 Race St., Cincinnati, Ohio. *Botany. Ex.*
 662. JAMES, W. P., Cincinnati, Ohio. *Palæontology, Local Conchology.*
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 672. JILSON, JAMES, Hudson, Mass. *Ornithology, Taxidermy.*
 673. JOHNSON, DANIEL W., Richmond, Ind. *Taxidermist.*
 674. JOHNSON, A. E., M. D., Minneapolis, E. D., Minn. *Zoölogy, Comp. Anatomy.*
 675. JOHNSON, LAWRENCE, M. D., 319 West 26th St., N. Y. City. *Botany.*
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 677. JONES, C. M., Eastford, Conn. *Ornithology, Oölogy.*
 678. JONES, JOHN P., Keytesville, Chariton Co., Miss. *Archæology. Ex.*
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 680. JONES, WM. L., Lebanon, Ill. *Ornithology. Ex.*
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 693. KERR, W. C., State Geologist, Raleigh, N. C. *Geology.*
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 695. KERVEY, H. R., P. O. Box 45, West Chester, Pa. *Archæology, Oölogy.*
 696. KESSELL, FRED A., Buffalo, N. Y. *Coleoptera, Lepidoptera.*
 697. KIDDER, J. H., Surgeon U. S. Army, Care Bureau of Medicine and Surgery, Navy Dep't, Washington, D. C. *Natural History.*
 698. KILHAM, John T., Turin, Lewis Co., N. Y. *Ornithology, Oölogy.*



699. KILLEBREW, J. B., Nashville, Tenn. *Geology*.
700. KIMBALL, J. P., Century Club, 109 E. 15th St., N. Y. City, Prof. Geol., Lehigh Univ., Bethlehem, Pa. *Geology*.
701. KING, MRS. MARY B. ALLEN, Rochester, N. Y.
702. KING, A. J. & Co., 61 Hudson St., N. Y. City. *Bee-Keeping*
703. KINGSLEY, J. S., Peabody Academy of Science, Salem, Mass. *Crustacea and Invertebrate Anatomy. Zoölogical Artist*.
704. KINNE, C. MASON, San Francisco, Cal. *Microscopy*. Exchange. Lists furnished.
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706. KINZER, GEORGE H., 233 E. Walnut St., Lancaster, Pa. *Ornithology, Mammalogy*. Exchange.
707. KIRK, HYLAND C., Phelps, Ontario Co., N. Y. *Entomology, Palæontology*.
708. KIRLEY, C. P., M. D., Lowville, Lewis Co., N. Y. *Oölogy, Ornithology*. Exchange.
709. KIRSCH, ALEX., Univ. of Notre Dame, St. Joseph, Ind. *Zoölogy, Geology, Botany, Physiology*.
710. KLEEGERGER, GEO. R., Whitewater, Wis. *Bryology*. Desires to exchange.
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713. KNEELAND, SAMUEL, A. M., M. D., Inst. of Technology, Boston, Mass. *Gen. Zoölogy, Ethnology*.
714. KNIGHT, LIZZIE G., 1235 3d Ave., N. Y. City. *Botany*. Filices for exchange.
715. KNIFE, REV. S. W., Delaware Water Gap, Pa. *Botany, Mineralogy*. Exchange.
716. KNOWLTON, F. H., Brandon, Vt. *Oölogy*. Exchange.
717. KNOX, PROF. M. V. B., Baldwin, Douglas Co., Kans. *Gen. Natural History*.
718. KOCKER, J. F., M. D., Guth's Station, Lehigh Co., Pa. *Ornithology*.
719. KÖENIG, DR. G. A. Philadelphia, Pa. *Mineralogy*.
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723. KROUT, A. F. K., Coplay Boro., Lehigh Co., Pa. *Botany*. Exchange.
724. KRUTTSCHNITT, I., P. O. Box 144 New Orleans, La. *Vegetable Physiology, Microscopy*.
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726. KUISKERN, E. A., Care V. Benson, Carver, Carver Co., Minn. *Microscopy*. Minerals, Plants, Indian Relics and Microscopic Slides for exchange.
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- ✓ 733. LAKES, REV. A., Jarvis Coll., Golden City, Colo. *Geology, Natural History*. Exchange.
734. LAMB, W. F., Holyoke, Mass., *Ornithology, Oölogy*. Exchange.

735. LA MUNYON, IRA L., North Platte City, Lincoln Co., Neb. *Geology, Zoölogy*. Insects for exchange.
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738. LANYGUTH, J. G., Chicago, Ill. *Microscopy*. Diatoms for exchange.
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741. LAWRENCE, F. W., Saratoga Springs, N. Y. *Oölogy, Ornithology*.
742. LAWRENCE, GEO. N., New York, N. Y. *Ornithology*.
- ✓ 743. LEA, DR. ISAAC, 1622 Spring St., Philadelphia, Pa. *Geology, Mineralogy, Palæontology, Mollusca*.
744. LEBARON, J. F., Lynn, Mass. *Ornithology, Mineralogy, Archæology*. Birds, Minerals and Botanical Specimens for exchange.
745. LECONTE, JOHN L., M. D., Philadelphia, Pa. *Coleoptera: North American*.
746. LEE, L. A., Instructor in Nat. Hist., Bowdoin College Brunswick, Me. *Botany*.
747. LEGGETT, WM. H., N. Y. City. *Botany: Lecheas*. Specimens desired from So. Florida.
- ✓ 748. LEIDY, DR. JOSEPH, Philadelphia, Pa. *Rhizopods*.
749. LEMMON, J. G., Sierraville, Sierra Co., Cal. *Botany, Gen. Nat. Hist*.
750. LEMOINE, J. M., Quebec, Canada. *Ornithology*.
751. LENNON, W. H., Brockport, N. Y. *Botany*.
752. LE ROY, P. V., Columbia Coll., N. Y. City. *Botany*. Exchange.
- ✓ 753. LESLEY, J. P., Prof. Geology, Univ of Pa., State Geologist, Philadelphia, Pa. Rocks and fossils from any part of Pennsylvania will be gratefully received and acknowledged in the "Reports of Progress of the Second Survey of Pa."
- ✓ 754. LESQUEREUX, LEO, Columbus, O. *Palæontology, Musci*.
755. LEVETTE, G. M., M. D., Indianapolis, Ind. *Lepidoptera, Mollusca, Oölogy*.
- ✓ 756. LEWIS, B., Lockport, Niagara Co., N. Y. *Geology*.
757. LEWIS, L. L., Copenhagen, Lewis Co., N. Y. *Oölogy, Mineralogy, Palæontology*.
758. LINDLEY, CLARENCE T., Davenport, Ia. *Geology, Archæology, Ethnology*.
759. LINDSLEY, J. B., M. D., Nashville, Tenn. *Conchology of Tenn*. Ex.
760. LINTNER, J. A., N. Y. State Museum of Nat. Hist., Albany, N. Y. *Entomology: Lepidoptera*.
761. LITTLE, GEORGE, State Geologist, Atlanta, Ga. *Geology*.
762. LOCKE, LEWIS, San Francisco, Cal. *Ornithology*. Exchange.
763. LOCKWOOD, REV. SAMUEL, Ph D., Freehold, N. J. *Gen Zoölogy, and Botany*.
764. LOER, O. T., Lebanon, Ohio. *Geology, Palæontology*. Fossils in exchange for minerals.
765. LOOMIS, L. M., Chester, S. C. *Ornithology, Mineralogy*.
766. LORANDI, H. R., Meadville, Pa. *Game Birds of Pa*.
767. LOUGHRIDGE, PROF. JOSEPH, Atlanta, Ga., *Asst. State Geologist*.
768. LOVE, SAMUEL G., Jamestown, Chautauqua Co., N. Y. *Ornithology, Entomology*.
769. LOVELL, CHAS. H., Edgefield, Tenn. *Entomology, Botany, Mineralogy*.
770. LOWRIE, J. R., Warriorsmark, Pa. *Botany*.
771. LUDWIG, OTTO, San Antonio, Bexar Co., Tex. *Botany*.
772. LUFFKIN, FRANK, Pigeon Cove, Rockport, Mass. *Botany*.
773. LYKINS, WM. H. R., Kansas City, Jackson Co., Mo. *Geology, Palæontology*. Fossils for exchange.
774. LYMAN, THEODORE, Brookline, Mass. *Radiata, Pisciculture*.



775. LYONS, A. B., M. D., 125 Fort St., Detroit, Mich. *Botany, Conchology*.
 776. MACOUN, JOHN, Belleville. Ont., Canada. *Botany*. Exchange.
 777. MAISCH, J. M., Philadelphia, Pa. *Medical Botany*.
 778. MALONE, D. R., A.M., M.D., Edinburg, Johnson Co., Ind. *Palæontology*.
 779. MANELL, JOSEPH, Mo. Botanic Gardens, P. O. Box 2873 St. Louis, Mo. *Botany, Entomology, Aphidæ*.
 780. MANIGAUULT, G. E., Cur. Mus. Nat. History, Charleston, S. C. *Comp. Osteology*. Skeletons of local fish for exchange.
 781. MANN, B. PICAMAN, Cambridge Mass. *Entomology*.
 782. MANSFIELD, J. M., Mt. Pleasant, Ia. *Geology, Gen Nat. Hist.* Ex.
 783. MANSFIELD, F. O., Camden, Knox Co., Me. *Gen. Nat. Hist.* Ex.
 784. MARCY, OLIVER, Evanston, Cook Co., Ill. *Geology, Botany, Zoölogy*.
 785. MARDEN, GEO. H., 7 Parker St. Charlestown, Mass. *Geology*.
 786. MARK, EDWARD L., Fredonia, Chautauqua Co., N. Y. *Zoölogy*.
 787. MARSH, PROF. O. C., New Haven, Conn. *Geology, Palæontology, Archæology*.
 788. MARSH, CHAS. A., Brooks' Vale, New Haven Co., Conn. *Botany*.
 789. MARSHALL, JOHN P., Somerville, Mass. *Geology, Mineralogy*. Will furnish sections of rocks, and of quartz crystal for use with the microscope.
 790. MARTIN, PROF. DANIEL S., Rutgers Female College, New York City. *Geology, Natural History*.
 791. MARTINDALE, I. C., Camden, N. J. *Botany*. N. J. plants for exchange.
 792. MARVIN, D. S., Watertown, N. Y. *Minerals*.
 793. MATHEW, GEO. W., St. John, N. B., Canada. *Geology, Botany*.
 794. MATHEWS, FRANK, Toulon, Stark Co., Ill. *Geology, Mineralogy*. Ex.
 795. MATTESON, F. S., M. D., Coquille City, Oregon. *Birds, Mammals*. Ex.
 796. MAXWELL, W. R., Palestine, Anderson Co. Texas. *Gen. Nat. Hist.*
 797. MAY, ENOCH JR., Burlington, Ia. *Geology*. Exchange.
 798. MAYER, J. S., M. D., Quakertown, Bucks Co., Pa. *Botany*. Eastern Am. and European plants in exchange for those of the Western and Southern States.
 799. MAYNARD, C. J., Newtonville, Mass. *Ornithology, Taxidermy*.
 800. MAZYCK, WM. G., Charlestown, S. C. *Conchology*. Ex.
 801. MCBRIDE, T. H., Hopkinton, Delaware Co., Ia. *Geology, Botany*.
 802. MCBRIDE, SARA J., Mumford, Monroe Co., N. Y. *Entomology*.
 803. MCCLURG, CALVIN M., Knoxville, Tenn. *Mineralogy*.
 804. MCDANIEL, BENJ. F., Exeter, N. H. *Mineralogy*. Exchange.
 805. MCKAY, JOSEPH, 24 Liberty St., Troy, N. Y. *Microscopy*, Diatoms desired.
 806. McLAUGHLIN, F. R., Baltimore, Md. *Zoölogy, Ornithology*.
 807. McLEOD, ROBT. R., Houlton, Aroostock Co., Me. *Ornithology*.
 808. McMURRAY, C. F., Lansinburgh, N. Y. *Palæontology*. Exchange.
 809. McNIEL, JOHN A., Binghamton, N. Y. *Zoölogy, Archæology*. Gen. Collector in and about Gulf of Panama, N. G.
 810. McWHORTER, TYLER, Aledo, Mercer Co., Ill. *Geology, Palæontology*.
 811. MEACHAM, CHAS. F., Springfield, Vt. *Microscopy*.
 812. MEAD, S. B., Augusta, Hancock Co., Ill. *Botany*. Exchange.
 813. MEAD, T. L., 674 Madison Ave., N. Y. City. *Diurnal Lepidoptera of N. A. and Hesperidæ of the World*. Ex.
 814. MEAD, P. B., Mamaroneck, West Chester Co., N. Y. *Botany, Vegetable Physiology*.
 815. MEAD, J. C., N. Bridgeton, Me. *Ornithology, Oölogy*.
 816. MEAMBER, PROF. JOSEPH., East St. Louis, St. Clair Co., Ill. *Ornithology, Zoölogy*.
 817. MEARNS, W. H., 34, N. Harvard St., Baltimore, Md. *Ornithology, Oölogy*.
 818. MEARNS, E. A., Highland Falls, Orange Co., N. Y. *Vertebrate Animals*.

819. MEEHAN, THOS., Vice Director Bot. Sec., Acad. Nat. Sci., Philadelphia, Pa. *Botany*.
820. MEES, C. L., M. D., Louisville, Ky. *Microscopy*.
821. MEIGS, J. A., 1408 Spruce St., Philadelphia, Pa. *Physiology, Anthropology*.
822. MEINERTH, CARL, Newburyport, Mass. *Microscopy*. Photo-Micrographs from slides. Photographing from Nat. Hist. objects. Ex.
823. MEPHAM, GEO. S., S. E. Cor. 4th and Elm Sts., St. Louis, Mo., *Archæology*. Exchange.
824. MERCER, R. W., Cincinnati, O. *Natural History*.
825. MERKEL, AUG., 13 Broadway, N. Y. City. *Entomology: Coleoptera*.
826. MERRIAM, C. HART, New Haven, Conn. *Gen. Zoology, Ornithology*.
827. MERRIAM, ANDREW B. JR., Cincinnati, O. *Entomology*.
828. MERRIMAN, C. C., Rochester, N. Y. *Microscopy*. Exchange.
829. MERRILL, J. WARREN, Cambridgeport, Mass. *Botany: Filices*. Native and Exotic Ferns desired, and for exchange.
830. MERTZ, H. N., Wheeling, W. Virginia. *Botany, Geology*. Ferns to exchange.
831. MEYER, A., Cogan House, Williamsport, Pa. *Mineralogy*. Exchange.
832. MEYER, J. E., Brooklyn, N. Y. *Lepidoptera of the World*. Ex.
833. MEYNCKE, O. M., Brookville, Ind. *Geology, Archæology, Conchology*. Exchange.
834. MICHENER, EZRA, M. D., Toughkenamon, Pa. *Botany, Conchology*.
835. MICKELBOROUGH, JOHN, Cincinnati, O. *Geology, Zoology*. Fossils in exchange.
836. MIDNER, J. W., Waukegan, Lake Co., Ill. *Ichthyology*.
837. MIDNER, MRS. S. A., Waukegan, Lake Co., Ill. *Botany*.
838. MILGATE, WM. H., Biddeford Pool, Me. *Sea Birds*.
839. MILLER, FRANK, 690 Myrtle Ave., Brooklyn, N. Y. *Microscopy, Entomology*.
840. MILLER, E. S., Wading River, Suffolk Co., N. Y. *Botany*. Exchange.
841. MINIFIE, WM., Baltimore, Md. *General*.
842. MINOT, CHAS. S., Roslindale P. O., Boston, Mass. *Gen. Zoology, Lepidoptera, Comp. Embryology*.
843. MINOT, H. D., P. O. Box 2477 Boston, Mass. *Ornithology*.
844. MITCHELL, CHAS. T., M. D., Canandaigua, N. Y. *Conchology*. Ex.
845. MITCHELL, JOSEPH D., Mt. Vernon, Westchester Co., N. Y. *Oölogy*.
846. MOHR, CHAS., Mobile, Ala., *Musci and Lichens of the Gulf Region*.
847. MOHR, PAUL, Clifton Ave., Cincinnati, O. *Geology, Palæontology, Mineralogy*.
848. MOODY, H. L., Malden, Mass. *Entomology: Coleopterous larvæ*.
849. MOORE, JOSEPH, Richmond, Ind. *Geology*. Exchange fossils.
850. MORE, FRED A., Lindley, Steuben Co., N. Y. *Ornithology*.
851. MOREHEAD, MRS. M. C., Gilbert Ave., Cincinnati, O. *Conchology*. Ex.
852. MOREHOUSE, GEO. W., Wayland, Steuben Co., N. Y. *Microscopy*.
853. MORGAN, LEWIS H., Rochester, N. Y. *Anthropology*.
854. MORGAN, A. P., N. Pomfret, Windsor Co., Vt. *Botany*.
855. MORGAN, HENRY, Springfield, Mass. *Ornithology*.
856. MORLEY, EDW. W., Hudson, O. *Botany*.
857. MORSE, C. A., Bangor, Me. *Ornithology, Oölogy*. Exchange.
858. MORSE, EDWARD S., Salem, Mass. *Zoölogy*.
859. MORTON, MISS E. L., Newburg, N. Y. *Entomology*. Insects drawn and colored.
860. MORRIS, REV. DR. J. G., Baltimore, Md. *Entomology*. Prof. Zoöl. Penn. Coll.
861. MORRIS, GALLOWAY C., Germantown, Phila., Pa. *Microscopy, Diatoms*. Exchange.
862. MORRISON, II. K., Cambridge, Mass. *Entomology*.
863. MUDGE, BENJ. F., Manhattan, Riley Co., Kans. *Geology*.



864. MUELLER, PROF. RUDOLPH, Ph. D., Carthagenia, Mercer Co., O. *Geology. Ethnology.*
865. MUNROE, H. S., 195 Harrison St., Brooklyn, N. Y. *Economic Geology and Mining.* Will be in Japan after March '77, after return will exchange Japan minerals, etc.
866. MURDOCH, JOHN, Roxbury, Mass. *Gen. Zoölogy, Ornithology.* Paints Zoölogical diagrams.
867. MURDOCK, S., Eldader, Ia. *Anthropology.*
868. MURRAY, WM., Hamilton, Ontario, Canada. *Entomology.* Exchange for Catocalæ and Coleoptera.
869. MURRAY, F. MARION, Key West, Florida. *Marine Zoölogy, Botany.*
870. MURTFIELD, MARY E., Kirkwood, Mo. *Entomology.*
871. MYERS, JOAN A., Prof. Physics, N.W.C. Univ., Irvington, Ind. *Geology.*
872. NASH, H. W., Ithaca, N. Y. *Gen. Entomology.*
873. NASON, ELIAS, North Billerica, Mass. *Vegetable Botany.*
874. NASON, WM. A., Algonquin, Ill. *N. A. Coleoptera, Shells, Invertebrate fossils.* Exchange.
875. NASON, H. B., Troy, N. Y. *Mineralogy, Lithology.*
876. NEISTER, H. M., Butler, Taylor Co., Ga. *Botany.*
877. NELSON, PROF. E. T., Wesleyan Univ., Delaware, O. *Zoölogy, Palæontology.* Exchange.
878. NELSON, E. W., Chicago, Ill. *Ornithology, Herpetology, Ichthyology.*
879. NEUMOEGER, B., P. O. Box 5326 N. Y. City. *Lepidoptera.* Exchange.
880. NEVIN, WASHINGTON, Ogdensburg, N. Y. *Ornithology.*
881. NEWBERRY, JOHN S., Prof. Geol., School of Mines, Columbia Coll., N. Y. City, State Geologist of ~~Lower~~ *Geology, Palæontology.*
882. NEWTON, E. W., Franklin Grove, Ill. *Ornithology.* Exchange.
883. NICHOLS, ALONZO, Chariton, Iowa. *Botany, Entomology.* Exchange.
884. NICHOLS, GEO. W., Merrimac, Essex Co., Mass. *Entomology, Mol-lusca.*
885. NICHOLS, WM. G., Merrimac, Essex Co., Mass. *Entomology, Mol-lusca.*
886. NICKERSON, GEO. Y., New Bedford, Mass. *Gen. Natural History and Curiosities.*
887. NICODEMUS, WM. J. L., Madison, Dane Co., Wis. *Civil and Mechanical Engineer.*
888. NILES, W. H., Cambridge, Mass. *Geology, Physical Geography.*
889. NOBLE, FRANK T., Fitchburg, Mass. *Entomology. Ornithology.*
890. NOLT, R. S., Silver Springs, Lancaster Co., Pa. *Mineralogy.*
891. NORTON, EDW., Farmington, Conn. *Entomology: Hymenoptera.*
892. NORTON, MISS MARY E. B., Hale, Ogle Co., Ill. *Botany.*
893. NOSTRAND, P. E., 550 Brunswick Ave., Brooklyn, N. Y. *Lepidoptera.* Exchange.
894. NOTTBECK, PETER DE, Fishkill Landing, N. Y. *Ornithology.* Ex.
895. NOYES, JAMES FANNING, M. D., Detroit, Mich. *Prof. Ophthalmology and Ology. in Detroit Med. Coll.*
896. NUTT, C. N., New Albany, Floyd Co., Ind. *Entomology.*
897. NUTTER, FRANK H., West Roxbury, Mass. *Mineralogy, Oölogy, Conchology.* Exchange.
898. OAKES, R. A., Watertown, N. Y. *Palæontology: Trenton Limestones and Utica Slate.*
899. OLDROYD, O. H., Springfield, Ill. *Gen. Nat. Hist.* Exchange.
900. O'NEALL, J. KELLY, Lebanon, Warren Co., O. *Geology, Palæontology.* Exchange.
901. ORNE, JOHN JR., Cambridge, Mass. *Botany, Entomology: Coleoptera.*
902. ORTON, EDWARD, Columbus, O. *Geology.*
903. OSBORN, A. O., Waterville, Oneida Co., N. Y. *Geology.* Exchange.
904. OSBORN, H. S., LL D., Oxford, O. *Mineralogy.* Exchange.
905. OWENS, CHAS. S., 179 Genesee St., Utica, N. Y.

- ✓ 906. OWEN, RICHARD, Prof. Ind. State Univ., Bloomington. Ind. *Geology*.
 ✓ 907. PACKARD, A. S. JR., Director Peabody Academy of Science. Salem, Mass. *Entomology. Embryology*. Desires specimens of Phyllopod Crustacea and Parasitic Worms.
908. PALMER, ELMORE, M. D., Dexter, Mich. *Botany*. Michigan, in exchange for N. England specimens.
909. PALMER, FRED. W., Victor, Ontario, Co., N. Y. *Botany, Entomology*.
910. PALMER, MRS. J. R., Rio Grande. Cape May Co., N. J.
911. PALMER, MISS KATE, Louisville, Ky. *Physiology, Zoölogy, Botany*.
912. PARK, AUSTIN F., Troy, N. Y. *Ornithology*.
913. PARKER, HERBERT, So. Lancaster, Mass. *Ornithology, Oölogy*.
914. PARKHURST, V. P., East Templeton, Mass. *Minerals, Palæontology, Botany*. Minerals, Jamaica ferns, etc. for exchange.
915. PARRISH, HUGH R., Burlington, N. J. *Oölogy*.
916. PARRY, C. C., Davenport, Iowa. *Botany*.
917. PARSON, J., Union Coll., Schenectady, N. Y. *Botany*.
918. PARVIN, PROF. T. S., Iowa City, Iowa. *Gen. Nat. Sci.*
919. PATTERSON, HARRY N., Oquamka, Henderson Co., Ill. *Botany*. Ex.
920. PATTERSON, JNO. P., A. M., Washington C. H., Fayette Co., O. *Zoölogy, Unionidæ*. Ex.
921. PATTON, W. H., Waterbury, Conn.
922. PEABODY, SELIM H., 602 W. Adams St., Chicago, Ill. *Entomology*.
923. PEALE, A. C., M. D., U. S. Geol. Survey, 509 7th St., N. W. Washington. D. C. *Geology*.
924. PEASE, F. N., Sheffield Scientific School, New Haven, Conn. *Botany, Microscopy*. Exchange.
925. PECK, CHAS. H., Albany, N. Y. *Botany: Fungi*.
926. PECK, GEO. W., 226 Pearl St., N. Y. City. *Lepidoptera*. Rare Sphingidæ, Catocalidæ, etc. for exchange.
927. PEET, STEPHEN D., Ashtabula, Ohio. *Archæology, Ethnology*.
928. PIERCE, WM. C., L. T. D., Prof. Nat. Sci., Baldwin Univ., Berea, Ohio. *Geology*.
929. PEMBER, F. T., 129 West Broadway, N. Y. *Ornithology, Oölogy*. Ex.
930. PENNYPACKER, CHAS. H., West Chester, Pa. *Mineralogy, Conchology*. Exchange.
931. PENNYPACKER, J. T., Philadelphia, Pa. *Entomology, Botany*.
932. PERGANDE, P., 2005 N. 14th St., St Louis, Mo. *Entomology: Coleoptera*.
- ✓ 933. PERKINS, PROF. GEO. H., Burlington, Vt. *Geology, Archæology, Natural History*.
934. PERKINS, MORT, Woodcock, Crawford Co., Pa. *Coleoptera, Lepidoptera*.
935. PERRINE, THOS. M., Anna, Union Co., Ill. *Archæology*.
936. PETRIE, E. A., N. Y. City. *Entomology: Coleoptera, Lepidoptera*.
937. PETTEE, WM. H., Ann Arbor, Mich. *Prof Mining Engineering, Univ. Mich.*
938. PETTIGREW, GEO. A., Ludlow, Vt. *Ornithology*.
939. PETTENGILL, A., Hudson, Summit Co., O. *Coleoptera*.
940. PHELPS, MRS. LINCOLN, Baltimore, Md. *Botany*.
941. PHELPS, SAMUEL B., Norwich, Conn. *Geology*.
942. PHELPS, WM. H., Cambridgeport, Mass. *Microscopy*.
943. PLIMPTON, F. S., 388 Washington St., Boston, Mass. *Filices*.
944. PIERCE, HENRY D., Indianapolis, Ind. *Geology*, particularly of the Oil Regions.
945. PIERCE, JOHN, Providence, R. I. *Microscopy*.
946. PIERRON, P. E., St. Vincent's Coll., Westmoreland Co. Pa. *Botany: Ferns*. Exchange.
947. PIFFET, J., A. M., M. D., Cleveland, O. *Morbid Animal Products*.
948. PIKE, NICHOLAS, 72 Wall St. N. Y. City. *Marine Botany and Zoölogy*. Spiders of L. I. for exchange.

949. PILLSBURY, JOHN H., Wesleyan Univ., Middletown, Conn. *Zoölogy, Botany*. Ferns to exchange.
950. PILATE, E., M. D., Dayton, O. *Ornithology, Botany, Entomology*.
951. PILATE, GEO. R. JR., Dayton, O. *Ornithology, Botany, Entomology: Lepidoptera*.
952. PIPER, R. U., M. D., Chicago, Ill. *Microscopy*.
953. PIPER, MRS. S. M., Sandisfield, Mass. *Botany, Entomology*.
954. PIQUE, E. H., 42, So. Vine St., Nashville, Tenn. *Conchology*.
955. POOL, HERMAN, Buffalo, N. Y. *General Natural History, Microscopy, Spiders*. Exchange.
956. POPE, CHAS. H., Louisville, Ky. *Botany*.
957. POPENOE, EDW. A., Topeka, Kans. *Entomology: Coleoptera*. Ex.
958. PORTER, PROF. THOMAS C., Easton, Pa. *Botany*. Introduced plants desired.
959. POTTER, B. S., Kirksville, Mo. *Botany, Microscopy*.
960. POURTALES, L. F., Keeper Mus. Comp. Zool., Cambridge, Mass. *Zoölogy: Radiates*.
- ✓ 961. POWELL, J. W., Washington, D. C. *Geology, Ethnology*.
962. PRATT, STILLMAN B., Marlboro, Mass. *General Natural History*.
963. PRATT, W. H., Davenport, Ia. *Archæology, Ethnology, Geology*.
964. PRENTISS, ALBERT N., Prof. Botany and Horticulture, Cornell Univ., Ithaca, N. Y. *Cultivated Economic Plants and Fungi*.
965. PRIME, FREDERICK JR., Lafayette Coll., Easton, Pa. *Mineralogy, Geology*.
966. PRINGLE, C. G., Charlotte, Chittenden Co., Vt. *Botany*. Exchange.
967. PROVANCHER, L'ABBE L., Caprouge, Quebec, Canada. *Entomology, General Natural History*. Exchange.
968. PUISSANT, P. A., St. Joseph's Sem., Troy, N. Y. *Botany*.
969. PUMPELLY, P., Oswego, N. Y. *Geology*.
970. PUMPELLY, RAPHAEL, Oswego, N. Y. *Geology, Mineralogy*.
971. PURDIE, H. A., Boston, Mass. *Ornithology, Oölogy*. Exchange.
972. PURDY, M. S., Fulton, Whiteside Co., Ill. *Entomology*.
973. PURRIANCE, AMOS T., Hennepin, Putnam Co., Ill. *Botany*.
974. PUTNAM, F. W., Cambridge, Mass. *Anthropology, Ichthyology*. Curator of Peabody Mus. of Am. Archæology and Ethnology, Harvard Univ.; Assistant in charge Dept. Ichthyology, Mus. Comp. Zool.; Permanent Sec'y Am. Assoc. Adv. Science.
975. QUICK, ED. R., Brookville, Franklin Co., Ind. *Ornithology, Archæology*.
976. QUIMBY, ELIHU T., Hanover, N. H. *Civil Engineering, Mathematics*.
977. RAELESTON, J. G., Norristown, Montgomery Co., Pa. *Mineralogy*. Exchange.
978. RAGSDALE, GEO. H., Gainesville, Cook Co., Texas. *Ornithology, Oölogy*.
979. RALSTON, J. GRIER, Norristown, Pa. *Mineralogy, Stone and Bronze Implements*.
980. RAND, S. F., Bellows Falls, Vt. *Ornithology*.
981. RAND, THEO. D., Philadelphia, Pa. *Mineralogy*. Exchange.
982. RANDALL, ORAN E., West Chesterfield, N. H. *Botany, Zoölogy*.
- ✓ 983. RANDOLPH, JOHN C., A. M., E. M., 35 Broadway, N. Y. *Geology*.
984. RASER, J. HEYL, Reading, Pa. *Botany, Mineralogy*.
985. RATHBURN, FRANK R., Auburn, N. Y., *Ornithology, Geology*.
986. RAU, EUGENE A., Bethlehem, Pa. *Botany, Musci*.
987. RAVENEL, H. W., Aiken, S. C. *Cryptogamic Botany*.
988. RAYMOND, R. W., Brooklyn, N. Y. *Mineralogy, Geology*.
989. READ, W. H. A., Toledo, Ohio. *Coleoptera*.
990. READIO, WM., Garnerville, Rockland Co., N. Y. *Microscopy, Entomology*.
991. READY, GEO. H., Santa Cruz, Cal. *Oölogy*.
992. REDDING, THOS. B., A. M., New Castle, Ind. *Botany, Entomology*.

993. REDFIELD, JOHN H., 216 West Logan Sq., Phila., Pa. *Botany*.
 994. REED, E. BAYNES, Asst. Editor "Canadian Entomologist," London. Ont., Canada. *Entomology*.
 995. REIFF, ISAAC, 1233 Potts St., Philadelphia, Pa. *Eggs, Nests and Skins*.
 996. REINECKE, OTTOMAR, Buffalo, N. Y. *Entomology: Coleoptera*.
 997. REPERT, FERDINAND, Muscatine, Ia. *Botany*.
 998. REYNOLDS, H. S., Judsonia, White Co., Arkansas. *Botany, Zoölogy*. Exchange.
 999. REYNOLDS, MISS MARY C., St. Augustine, Florida. *Botany, Marine Algae*.
 1000. RICE, FRANK L., Evanston, Ill. *Ornithology, Herpetology*.
 1001. RICE, WM. N., Middletown, Conn. *Zoölogy, Geology*.
 1002. RICHMOND, A. B., Meadville, Pa. *Collector of Fresh Water shells, Birds, Insects, etc.* Exchange.
 1003. RICHMOND, M. S., P. O. Box 300 Toronto, Canada. *Ornithology*.
 1004. RIDDELL, WM. R., B. A., B. Sc., Normal School, Ottawa, Canada. *Geology, Mineralogy*.
 1005. RIDGWAY, ROBERT, Smithsonian Institution, Washington, D. C. *Ornithology, Botany*. Exchange bird-skins.
 1006. RILEY, CHAS. V., State Entomologist, St. Louis, Mo. *Botany, General Entomology: Galls and Gall Insects and Diptera*.
 1007. RINGNEBERG, E. M. S., Lockport, N. Y. *Geology, Mollusca*. Ex.
 1008. ROBERTS, CHRIS. H., Factory Point, Vermont. *Entomology: Lepidoptera of N. A.*
 1009. ROBERTS, EDW. C., Rockport, Mass. *Entomology*.
 1010. ROBERTSON, ROBERT S., Fort Wayne, Ind. *Archæology*.
 1011. ROBINSON, REV. EDW. S., Enterprise, Clark Co., Miss. *Geology, Botany*.
 1012. ROBINSON, JOHN, Treas. Peabody Acad. Sci., Salem, Mass. *Botany*. Essex Co. Flora and Ferns in general.
 1013. ROOF, C., Portland, Oregon. *Ornithology*. Exchange.
 1014. ROOT, A. LANGDON, Geneva, N. Y. *Ornithology, Oölogy*. Exchange.
 1015. ROSS, M. D., Boston, Mass. *Gen. Nat. Hist.*
 1016. ROSS, WALDO O., 159 Devonshire St., Boston, Mass. *Botany. Cacti and other Succulent Plants*.
 1017. ROTHROCK, DR. J. T., Wilkes-Barre, Pa. *Botany of N. A.*
 1018. ROUSSEAU, WM. A., Troy, N. Y. *Ornithology, Entomology, Conchology*. Exchange.
 1019. RUGER, M., 54 Tompkins St., N. Y. *Botany*. Exchange.
 1020. RUSSELL, F. W., M. D., Winchendon, Worcester, Co., Mass. *Lepidoptera*.
 1021. RUSSELL, I. C., Asst. Prof. School of Mines, Columbia Coll. N. Y. City. *Geology*.
 1022. RUST, MRS. STILES M., 112 E. Genesee St., Syracuse N. Y. *Botany. Filices and Musci*. Exchange.
 1023. SACHS, HERMAN, Hoboken, N. J. *Lepidoptera, Coleoptera*. Exchange.
 1024. SAFFORD, JAMES M., M. D., Ph. D., Prof. Vanderbilt Univ., Nashville Tenn. *Geology, Mineralogy, Botany*. Exchange.
 1025. SAGE, JNO. H., Portland, Me. *Ornithology*.
 1026. SAGER, ABRAM, Ann Arbor, Mich. *Botany, Zoölogy*.
 1027. SALISBURY, STEPHEN JR., Worcester, Mass. *Herpetology*.
 1028. SALTZWEDER, HENRY, M. D., Williamsburgh, N. Y. *Microscopy, Entomology*. Exchange.
 1029. SAMUELS, E. A., Boston, Mass. *Ornithology, Oölogy of Eastern States*.
 1030. SANBORN, FRANCIS GREGORY, Andover, Mass. *Biology, Agricultural Entomology, "Consulting Naturalist."* Takes charge of the arrangement and labelling of specimens in museums, etc.
 1031. SANFORD, JAS. A., Toledo, Ohio. *Botany*.
 1032. SANFORD, O. N., San Diego, Cal. *Conchology, Coleoptera*. Exchange.
 1033. SARGENT, CHAS. S., Director Botanical Garden, Cambridge, Mass. *Botany*.

1034. SAUNDERSON, ROBERT G., Burlington, Ia. *Geology*.
 1035. SAUNDERS, WM., London, Canada. *Geology, Lepidoptera, Coleoptera*.
 1036. SAUNDERS, W. E., London, Canada. *Ornithology, Oology, Entomology*.
 1037. SCARBOROUGH, GEO., Vineland, N., J. *Botany, Geology, Conchology*.
 1038. SCHAUS, WILHELM, JR., Exeter, N. H. *Entomology: Lepidoptera, Coleoptera*.
 1039. SCHEELER, G., 500 Main St., Buffalo, N. Y. *Coleoptera*.
 1040. SCHICK, WILL H., M. D., Chicago, Ill. *Ornithology*.
 1041. SCIVENSON, J. M. L., P. O. Box 3952 N. Y. City. *Coleoptera: Scarabæidæ*. Exchange.
 1042. SCHMELTER, H., P. O. Box 2135 N. Y. City. *American and European Coleoptera: Chrysomelidæ*. Exchange.
 1043. SCHNECK, DR. J., Mt. Carmel, Ill. *N. A. Botany*.
 1044. SCHOLEY, W. D., Richmond, Ind. *Geology, Palæontology*.
 1045. SCHOR, R. F., Evansville, Ind. *Marine Zoology, Conchology*.
 1046. SCHULTZ, E., 636 3d Ave., N. Y. City. *Entomology, Botany*.
 1047. SCHUSTER, MORITZ, 614, So. 4th St., St. Louis, Mo. *Coleoptera*.
 1048. SCHWARZ, E. A., Detroit, Mich. *Entomology: Coleoptera*. Exchange.
 1049. SCHWENSEN, F. M. L., 636 3d Ave. N. Y. City. *Coleoptera: Scarabæidæ*.
 1050. SCHWINN, J. W. JR., Buffalo, N. Y. *Coleoptera, Lepidoptera*. Ex.
 1051. SCOVELL, J. T., Terre Haute, Ind. *Botany, Conchology*. Exchange.
 1052. SCRIBNER, F. LAMSON, Girard College, Philadelphia, Pa. *Botany, Cyperaceæ, Gramineæ*. Exchange.
 1053. SCUDDER, SAM'L H., Cambridge, Mass. *Gen. Zoology, Fossil Insects, Orthoptera, Butterflies*.
 1054. SEAMAN, WM. H., Washington, D. C. *Botany*.
 1055. SEARS, JOHN H., Danvers, Mass. *Botany*.
 1056. SEEHER, ERNEST, 939 S. 2d St., Philadelphia, Pa. *Entomology: Coleoptera*.
 1057. SEELEY, HENRY M., Middlebury, Vt. *Botany*.
 1058. SEISS, C. F., 1338, Spring Garden St., Philadelphia, Pa. *Reptiles, Birds, Zoological Artist*.
 1059. SEISS, RALPH W., Philadelphia, Pa. *Local Mammalia and Reptilia*.
 1060. SELWYN, ALFRED R. C., F. R. S., F. G. S., Director of the Geological Survey of Canada, Montreal, Canada. *Geology*.
 1061. SEMPLE, WM. S., Easton, Pa. *Ornithology*.
 1062. SENNETT, GEO. B., Erie, Pa. *Zoology, Ornithology, Mammalogy*.
 1063. SEVERANCE, M. L., Orwell, Addison Co., Vt. *Geology, Mineralogy*. Exchange.
 1064. SEYMOUR, E., 52 Beekman St., N. Y. City. *Mineralogy, Geology, Gen. Natural History*.
 1065. SHALER, N. S., Harvard Coll., Cambridge, Mass. *Gen. Zoology, Palæontology*.
 1066. SHARP, S. Z., Maryville, Blount Co., Tenn. *Geology*. Exchange.
 1067. SHAW, A. B., B. S., Tipton, Ga. *Geology, Natural History*.
 1068. SHAW, HENRY, Botanical Garden, St. Louis, Mo. *Botany, Horticulure*.
 ✓ 1069. SHEAFER, P. W., Pottsville, Pa. *Geology*.
 1070. SHEETS, ELIZABETH, Troy, Miami Co., O. *Local Botany*.
 1071. SHELDON, D. S., A. M., Davenport, Ia. *Natural History, Conchology*.
 1072. SHEPARD, EDW. M., Norfolk, Conn. *Mineralogy, Botany, Mollusca*.
 1073. SHEPARD, JOSEPH, St. Mary's, Camden Co., Ga. *Natural History*.
 1074. SHERMAN, LEWIS, Milwaukee, Wis. *Botany of Wis.* Exchange.
 1075. SHIPMAN, ANDREW J., Lewisville, Fairfax Co., Va. *Entomology*.
 1076. SHORT, REV. WM., Trinity Chapel, Brooklyn, N. Y. *Botany*.
 1077. SHORTEN, JOHN W., Cincinnati, O. *Ornithology, Taxidermy*.
 1078. SHROCK, FRANK H., So. Pueblo, Colo. *Geology, Zoology*.
 1079. SHROYER, J. C., 365 W. Count St., Cincinnati, O. *Pulxontology*.
 1080. SIEWERS, C. G., Newport, Ky. *Entomology*.
 1081. SILLIMAN, PROF. B., New Haven, Conn. *Mineralogy*.

1082. SIMONDS, FRED'K W., M. S., Instructor Cornell Univ., Ithaca, N. Y. *Geology, Palæontology*. Exchange.
1083. SISSON, ALBERT, Westerly, R. I. *Ornithology, Entomology*.
1084. SKAER, HENRY, 1213 S. 6th St., St. Louis, Mo. *Entomology*. Ex.
1085. SKELTON, JOHN L., 74 S. Morgan St., Chicago, Ill. *Ornithology*.
1086. SKINNER, A. G., M. D., Youngstown, Niagara Co., N. Y. *Botany*.
1087. SLADE, ELISHA, Somerset, Mass. *Natural History of the Farm*.
1088. SLEEPER, FRANK S., Galesburg, Mich. *Coleoptera*.
1089. SLOAN, JOHN, New Albany, Ind. *Cave Fauna, and Fishes of Ohio River*.
1090. SMITH, E. J., Natick, Mass. *Ornithology, Mammalogy, Lepidoptera*.
1091. SMITH, MISS EMMA A., 136 Moss St., Peoria, Ill. *Entomology: Hymenoptera*.
1092. SMITH, ERWIN F., Hubbardston, Ionia Co., Mich. *Botany*. Exchange.
- ✓ 1093. SMITH, EUGENE A., Ph. D., Prof. Chem. and Geol. in Univ. of Ala., Tuscaloosa, Ala. *State Geologist*.
1094. SMITH, F., Lancaster, Pa. *Archæology*.
1095. SMITH, FRANK, 514 Lexington St., Baltimore, Md. *Oölogy*.
1096. SMITH, PROF. HAMILTON L., Geneva, N. Y. *Diatomaceæ, Foraminifera, Polycistina*.
1097. SMITH, J. ALDEN, Boulder, Colo. *Mineralogy*.
1098. SMITH, J. LAWRENCE, Louisville, Ky. *Mineralogy*.
1099. SMITH, SIDNEY I., Prof Comp. Anat. Yale College, New Haven, Conn. *Comp. Zoölogy, Crustacea*.
1100. SMITH, W. H., Prof. Nat. Hist. in State Univ., Chapel Hill, Orange Co., N. C.
1101. SMITH, W. R., Belleville, Ont., Canada. *Geology, Conchology*.
1102. SNOW, F. H., Prof. Nat. Hist. Univ. of Kans., Lawrence, Kans. *Ornithology, Entomology, Botany*. Exchange.
1103. SOMMERS, JOHN, M. D., Prof. Physiology, Halifax, N. S. *Botany*.
1104. SOTZEN, TRAUGOTT, Shelby, Richland Co., O. *Mineralogy, Geology*, Exchange.
1105. SOUTHWICK, J. M., (Southwick & Jencks,) 282 Westminster St., Providence, R. I. *Taxidermist, Ornithology*.
1106. SPOFFORD, FRED. A., Ludlow, Vt. *Ornithology*. Exchange.
1107. SPRINGER, PHIL. M., Springfield, Ill. *Entomology, Conchology*.
1108. SPANG, NORMAN, Etna, Pa. *Mineralogy*. Desires first class specimens of crystallized minerals.
1109. SPENCER, JOHN W., Paxtons, Sullivan Co., Ind. *Geology, Palæontology*. Fossils for exchange.
1110. STADLMAIR, WM., Brooklyn, E. D., N. Y. *Lepidoptera*. Exchange.
1111. STANAGE, S. W., Walnut Hill, Cincinnati, O. *Mollusca, Palæontology*. Exchange.
1112. STANLEY, F. F., 40 Pearl St., Boston, Mass. *Microscopical Work*. Slides of Diatoms for exchange.
1113. STANLEY, IRVIN, Westfield, Hamilton Co., Ind. *Ornithology, Oölogy*. Exchange.
1114. STANLEY, RICHARD C., Prof. Bates College, Lewiston, Me. *Geology*.
1115. STANTON, J. G., Lewiston, Me. *Ornithology*.
1116. STARR, FREDERICK, P. O. Box 331, Auburn, N. Y. *Mineralogy, Palæontology*. Exchange.
1117. STAUFFER, JACOB, Lancaster, Pa. *Botany, Entomology*.
1118. STCYR, PROF. NAPOLEON, St Guillaume, Quebec, Canada. *Entomology*.
1119. STEACY, W. H., Bart, Lancaster, Pa. *Taxidermy*. Exchange.
1120. STEARNES, H. P., M. D., Hartford, Conn.
1121. STEARNES, FREDERICK, Detroit, Mich. *Botany*.
1122. STEARNES, R. E. C., Sec. Univ. of Cal., Oakland, Cal. *Mollusca*.
1123. STEARNES, W. A., Amherst, Mass. *Mineralogy, Gen. Natural History, Embryology of Birds*. Desires to obtain eggs of any birds, particularly of Thrushes, Sparrows, or Waxwings, in various stages of development in alcohol.

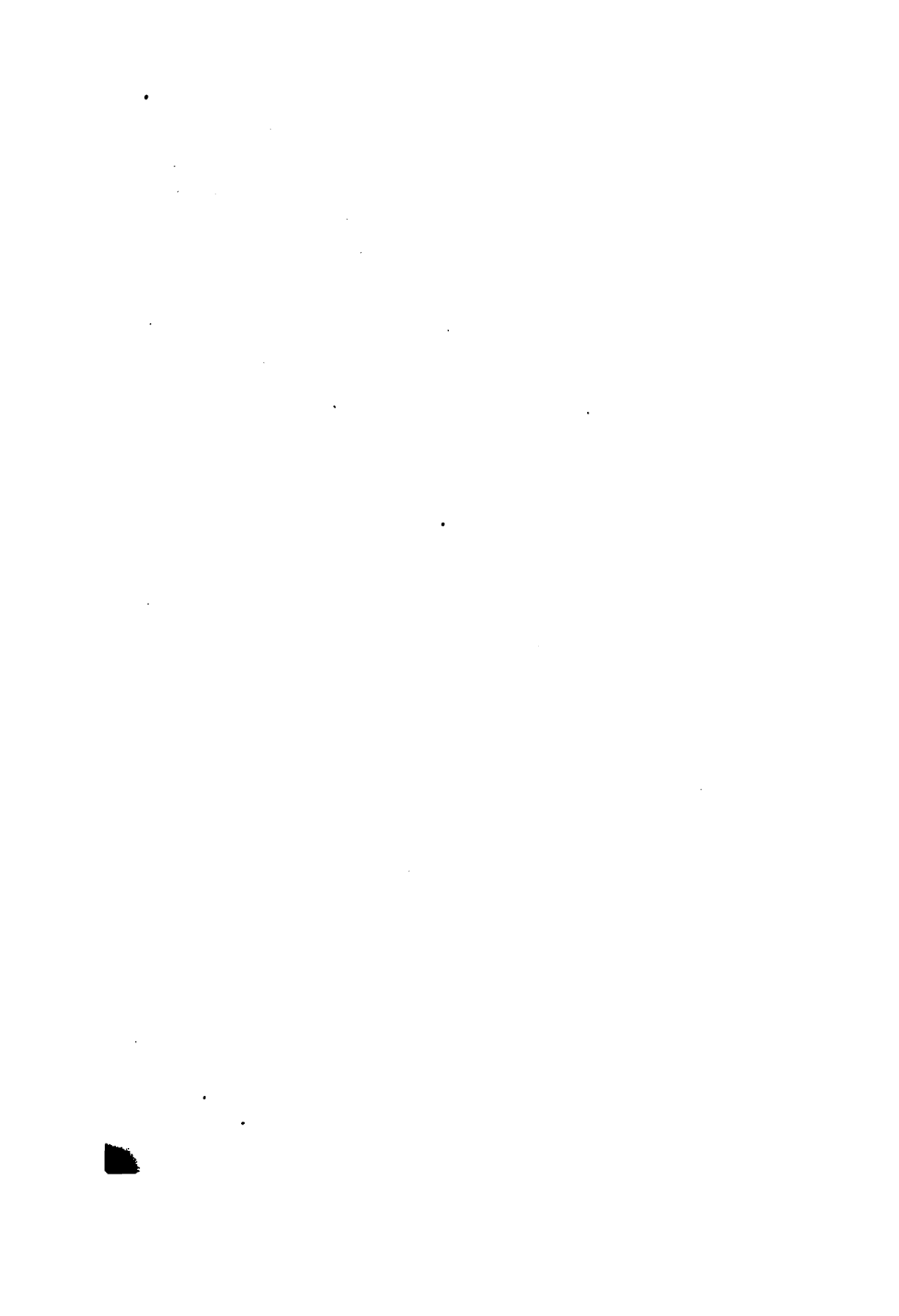
1124. STEIN, FR. C. E., Mt. Carmel, Ill. *Conchology, Entomology*. Ex.
 1125. STEINER, LEWIS H., Frederick City, Md. *Botany*.
 1126. STEPHENSON, DR. M. F., Gainesville, Hall Co., Ga. *Geology, Mineralogy*.
 1127. STEVENS, GEO. T., M.D., 47 Eagle St., Albany, N. Y. *Botany*.
 1128. STEVENSON, JAMES, 509 7th St., Washington, D. C. *General Natural History*.
 1129. STEVENSON, JOHN J., Prof. Geology Univ. of N. Y., N. Y. City.
 1130. STEVENSON, WM. C. JR., Philadelphia, Pa. *Fungi*.
 1131. STEWART, JOHN F., Plano, Kendall Co., Ill. *Palæontology*. Exchange.
 1132. STEWART, A. P. S., Lincoln, Neb. *Mineralogy*.
 1133. STEWART, J. T., M. D., Peoria, Ill. *Botany*.
 1134. STILLWELL, CHAS. M., N. Y. City. *Botany*.
 1135. STIMPSON, CHAS. M., Peabody, Mass. *Botany*.
 1136. STOCKWELL, G. ARCHIE, M. D., Port Huron, Mich. *Mammalogy, Ornithology, Ichthyology*.
 1137. STOCKWELL, JAS. KIRK, M. D., Oswego, N. Y. *Comp. Zoölogy*.
 1138. STODDER, CHAS., Boston, Mass. *Geology, Microscopic Botany*.
 1139. STONE, GEO. H., Kent's Hill, Me. *Botany, Geology*. Exchange.
 1140. STONE, MR. & MRS. L., 1571 Indiana Ave., Chicago, Ill. *Botany, Geology*.
 1141. STORER, D. HUMPHREYS, Boston, Mass. *Ichthyology*.
 1142. STORRS, HENRY E., Jacksonville, Ill. *Mineralogy*.
 1143. STRATTON, C. L., Knoxville, Tenn. *Archæology*. Exchange.
 1144. STRATTON, HATTIE R., P. O. Box 43, Grassy Cave, Tenn. *Mineralogy, Gen. Collector*. Exchange.
 1145. STRECKER, HERMAN, Reading, Pa. *Entomology*.
 1146. STRENG, L. H., Grand Rapids, Mich. *Local Conchology*.
 1147. STRONG, MOSES, Asst. State Geologist, Mineral Point, Wis. *Geology, Mineralogy*. Exchange.
 1148. STRUTHERS, R. H., Fort Atkinson, Wis. *Microscopy, Entomology*.
 1149. STUDER, JACOB H., Columbus, O. *Ornithology*.
 1150. STULTZ, WM. H., Easton, Pa. *Entomology*.
 1151. SULGROVE, LESLIE, Indianapolis, Ind. *Entomology: Lepidoptera*.
 1152. SUMMERS, REV. R. W., McMinnville, Oregon. *Palæontology, Archæology*. Exchange.
 1153. SUTTON, WM. T., Worcester, Mass. *Ornithology, Oölogy*.
 1154. SWAIN, J., Fort Dodge, Ia. *Geology*. Minerals for exchange.
 1155. SWAIN, MRS. J., Fort Dodge, Ia. *Botany*.
 1156. SWALLOW, G. C., Columbia, Mo. *Geology, Botany, Zoölogy*.
 1157. SWEZEY, GOODWIN D., Rockford, Winnebago Co., Ill. *Natural History, Geology*.
 1158. SYLVESTER, S. H., Middleboro, Mass. *Taxidermy*.
 1159. TABER, EDWARD B., Tribune Office, N. Y. City. *Lepidoptera*.
 1160. TANDY, M., Dallas City, Hencock Co., Ill. *Ornithology, Mammalogy*.
 1161. TASCOTT, FRANK B., 19 and 21 S. Canal St., Chicago, Ill. *Lepidoptera*.
 1162. TATNALL, EDWARD, Wilmington, Del. *Botany*.
 1163. TATNALL, EDWARD J., Wilmington, Del. *Coleoptera*. Exchange.
 1164. TAYLOR, JAMES, New Bedford, Mass. *Entomology: Coleoptera*.
 1165. TAYLOR, JULIUS S., M. D., Kankakee, Ill. *Geology, Palæontology*.
 1166. TEED, A. J., A. M., Reed City, Mich. *Botany, Geology*.
 1167. TEPPER, FRED., P. O. Box 5433 N. Y. City. *Lepidoptera*. Exchange.
 1168. TENNEY, SANBORN, Prof. Williams College, Williamstown, Mass. *Zoölogy, Botany*.
 1169. TEMPLE, J. B., No. Adams, Mass. *Geology*. Minerals for exchange.
 1170. THATCHER, A. R., Atco, N. J. *Mineralogy, Geology*.
 1171. THAXTER, L. L., Boston, Mass. *Mollusca*.
 1172. THAXTER ROLAND, Newtonville, Mass. *Entomology, Lepidoptera*.
 1173. THOMAS, CYRUS, Ph. D., State Entomologist, Carbondale, Ill. *Entomology: Orthoptera, Economic Entomology*.

1174. THOMPSON, EDWARD H., Cur. Nat. Hist. Soc., Worcester, Mass. *Zoölogy, Ornithology*.
1175. THOMPSON, EDWARD R., Minneapolis, Minn. *Botany*.
1176. THOMAS, FLAVEL S., M. D., Hanson, Mass. *Comparative Anatomy*.
1177. THOMSON, JOHN H., New Bedford, Mass. *Terrestrial Mollusca*. Desires to exchange for species foreign to the U. S.
1178. THOMAS, JOHN J., Union Spring, N. Y. *Botany, Pomology*.
1179. THOMSON, R. H., Hanover, Ind. *Geology, Botany*.
1180. THOMPSON, ROBT. H., Troy, N. Y.
1181. THRUBER, GEO., 245 Broadway, N. Y. City. *Botany, Grasses*.
1182. THURSTON, JOHN H., Cambridge, Mass. *Microscopy*.
1183. THURSTON, ROBERT H., Hoboken, N. Y. *Prof. Mechanical Engineering*.
1184. TILLOTSON, H. Z., Marshall, Mich. *Ornithology*.
1185. TOWNSEND, ALBERT C., Springfield, Mass. *Mineralogy, Geology*. Ex.
1186. TODD, JAMES E., Tabor, Iowa. *Zoölogy, Entomology, Geology*.
1187. TOWNSHEND, N. S., Columbus, Ohio. *Botany*.
1188. TRACY, CYRUS M., Lynn, Mass. *Botany (structural) Mineralogy*. Ferns and Minerals for exchange.
1189. TREHERNE, H. SACKVILLE, 108 Albany St., Poughkeepsie, N. Y. *Lepidoptera, Coleoptera*.
1190. TRIPPE, T. MARTIN, Hermosa, La Plata Co., Colo. *Ornithology*.
1191. TRÖMBLEY, JEROME, Petersburg, Mich. *Ornithology, Oology, Ichthyology, Botany*. Exchange.
1192. TROUSLOT, R. B., Sandwich, DeKalb Co., Ill. *Ornithology*.
1193. TROWBRIDGE, DAVID, Waterburgh, Tompkins Co., N. Y. *Geology*.
1194. TROWBRIDGE, SAM'L H., Glasgow, Howard Co., Mo. *Geology, Natural History*. Exchange.
1195. TRUE, H. A., A. M., M. D., Marion, Ohio. *Mineralogy*. Exchange.
1196. TRYON, A. WALTON, M. D., Lockport, N. Y. *Conchology, Palæontology*. Exchange.
1197. TRYON, GEO. W. JR., Vice-Director Conchological Section, Acad. Nat. Sci., Phila, Pa. *Conchology*.
1198. TUTWEILER, JULIA S., Tuscaloosa, Ala. *Botany*.
1199. TURNER, HENRY W., Vineland, N. J. *General Zoölogy*.
1200. TUTTLE, ALBERT H., Columbus, Ohio. *Myriopoda*. Desires to exchange Ohio species for others.
1201. UHLER, PHILIP R., Pres. Md. Acad. Sci., Baltimore, Md. *Gen. Nat. Hist., Hemiptera*.
1202. ULKE, HENRY, 1111 Pennsylvania Ave., Washington, D. C. *Coleoptera*.
1203. ULRICH, E. O., 631 Bakewell St., Covington, Ky. *Palæontology*. Ex.
1204. UNDERWOOD, LUCIEN M., Syracuse, N. Y. *Botany*. Ferns for ex.
1205. UNDERWOOD, W. O., Newton, Mass. *Taxidermist*. Birds and egg.
1206. VALLANDINGHAM, GEO. W., Cincinnati, Ohio. *Palæontology*.
1207. VANDENBURG, M. W., Fort Edward, N. Y. *Botany, Ornithology*. Ex.
1208. VANWINKLE, A. S., Trenton, Clinton Co., Ill. *Entomology*.
1209. VASEY, GEO., Washington, D. C. *Botany, Gramineæ*.
1210. VAUX, WM. S., Vice Pres. Acad. Nat. Sci., 1702 Arch St., Philadelphia, Pa. *Mineralogy, Archæology*.
1211. VEATCH, CHAS., Keytesville, Chariton, Co., Mo. *Mineralogy*. Exchange for fine specimens.
1212. VENNOR, HENRY G., F. G. S., Geological Survey of Canada, Montreal, Canada. *Ornithology, Geology*.
1213. VERRILL, A. E., New Haven, Conn. *Zoölogy, Geology*.
1214. VOGDES, A. W., Key West, Florida. *Trilobita*.
1215. VOOHEES, PAUL, Exeter, N. H. *Microscopy, Coleoptera*.
1216. VORCE, C. M., Cleveland, Ohio. *Ornithology, Entomology, Microscopy*.
1217. VOSE, JAMES E., Ashburnham, Mass. *Botany*.
1218. WADE, JAS. M., Editor Fanciers' Journal, Rockville, Conn. *General Natural History*.



1219. WADSWORTH, M. E., Cambridge, Mass. *Mineralogy, Geology, Lithology.*
1220. WADSWORTH, SAM'L. Keene, N. H. *Ornithology.*
- ✓ 1221. WALCOTT, C. D., Trenton, Falls, N. Y. *Geology.*
1222. WALKER, BRYANT, 18 Moffat Block, Detroit, Mich. *Conchology.*
1223. WALKER, FRED., So. Rutland, N. Y. *Palaeontology.*
1224. WALKER, JOSEPH, B., Louisville, Ky. *Geology.*
1225. WALKER, J. R., D. D. S., Napoleon Ave., New Orleans, La. *Geology, Physiology.*
1226. WALKER, G. S., M. D., 2809, Washington Ave., St. Louis, Mo. *General.*
1227. WALLING, HENRY F., Boston, Mass. *Topographer.*
1228. WALTON, ALICE B., Muscatine, Ia. *Entomology.* Exchange.
1229. WARD, JAMES W., Buffalo, N. Y. *Microscopy, Physiological Botany.*
1230. WARD, LESTER F., Washington, D. C. *Botany.* Exchange.
1231. WARD, R. H., M. D., Prof. Botany, Rensselaer Polyt. Inst., Editor Dept. of Microscopy in American Naturalist, Troy, N. Y. *Microscopy.*
1232. WARD, REV. W. H., Superintending Editor of the Independent, N. Y. City. *Botany.*
1233. WARNE, H. A., Oneida, Madison Co., N. Y. *Botany, Cryptogams.*
1234. WARNER, H. C., Clermont, Fayette Co., Ia. *Geology, Natural History.*
1235. WARNER, Jesse, West Newton, Mass. *Ornithology.* Exchange.
1236. WARREN, J. EDWARD, 135 Mayberry Ave., Detroit, Mich. *Entomology: Lepidoptera.*
1237. WASHBURN, F. L., Needham, Mass. *Ornithology.* Exchange.
1238. WATERHOUSE, A., M. D., Jamestown, Chautauqua Co., N. Y. *Natural History.*
1239. WATERMAN, SILAS C., Albany, N. Y. *Entomology: Lepidoptera.*
1240. WATERMAN, THOS., A. M., M. D., Boston, Mass. *Comp. Anatomy and Physiology.*
1241. WATSON, SERENO, Curator Herb., Harvard Univ., Cambridge, Mass. *Botany.*
1242. WATT, DAVID A. P., Montreal, Canada. *Botany: Acrogens.* Californian species desired.
1243. WAY, MARTIN A., Woonsocket, R. I. *Mineralogy, Botany.* Exchange.
1244. WEBSTER, F. M., Waterman, DeKalb Co., Ill. *Coleoptera.* Exchange.
1245. WEBSTER, H. E., Union College, Schenectady, N. Y. *Zoology.* Chætopod Annelids, identified or unidentified, desired.
1246. WEBSTER, PROF. N. B., 45 Charlotte St., Norfolk, Va. *Mineralogy, Geology.*
1247. WEIST, J. R., M. D., Richmond, Ind. *Comp. Osteology.*
1248. WELD, CLIFFORD R., Boston Highlands, Mass. *Ornithology.*
1249. WELLINGTON, C. W. W., Hyde Park, Mass. *Mineralogy.*
1250. WELLS, SAMUEL, Boston, Mass. *Microscopy: Diatomaceæ.*
1251. WENDELL, EMORY, Detroit, Mich.
1252. WESTON, EDWARD B., A. M., M. D., Highland Park, Lake Co., Ill. *Botany.*
1253. WESTCOTT, O. S. Maywood, Cook Co., Ill. *Entomology.*
1254. WETHERBY, PROF. A. G., Woodburn, Cincinnati, O. *Geology, Entomology, Conchology.* Dup. fossils of Cin. Group. Land and Fresh Water Shells of Southern States, Noctuidæ and Coleoptera for exchange. Desiderata—Land and Fresh Water Shells, Fossils and Insects.
1255. WHEATLEY, CHARLES M., Phoenixville, Chester Co., Pa. *Fresh Water Shells, Mesozoic fossils, Minerals.*
1256. WHEATON, J. M., M. D., Columbus, O. *Ornithology.*
1257. WHEELER, CHAS. F., Hubbardston, Mich. *Botany.*
1258. WHEELER, ORLANDO B., Asst. Engineer, U. S. Lake Surv., Detroit, Mich. *Botany.*
1259. WHEELER, C. GILBERT, Chicago, Ill. *Geology.*

1260. WHEILDON, Wm. W., Concord, Mass. *Conchology, Horticulture.*
 1261. WHERRELL, JOHN, Leavenworth, Kans. *Botany.*
 1262. WHIPPLE, ELLIOTT, Westfield, Clark Co., Ill. *Zoölogy.* Fossils, etc. for exchange.
 1263. WHITE, C. A., 500 Maple Ave., Washington, D. C. *Geology, Palæontology.*
 1264. WHITE, LEROY S., Waterbury, Conn.
 1265. WHITNEY, CHAS. B., Worcester, Mass. *Mineralogy.*
 1266. WHITNEY, C. P., Milford, Hillsboro Co., N. H. *N. A. Lepidoptera.*
 1267. WHITNEY, J. D., Cambridge, Mass. *Physical and Mining Geology.*
 1268. WHITTEM, Wm. A., Chestnut Hill, Philadelphia, Pa. *Botany.*
 1269. WHITTER, F. M., Muscatine Ia. *Conchology, Lepidoptera.* Ex.
 1270. WHITTINGTON, MISS MARY A., Harrodsburg, Mercer Co. Ky. *Zoölogy.*
 1271. WIBBE, REV. HERMAN, Ph. D., Oswego, N. Y. *Botany.* German and N. Y. plants for exchange.
 1272. WIDENINE, SAMUEL, Grampian Hills, Clearfield Co., Pa. *Geology, Natural History.*
 1273. WILBER, G. M., 140 W. 20th St., N. Y. City. *Botany.*
 ✓ 1274. WILDER, BURT G., M. D., Prof. *Comp. Anatomy and Zoölogy.* Cornell Univ., Ithaca, N. Y. Will exchange *Amphioxus* and *Menobranchus* and young *Lepidosteus* for the young of most vertebrates, especially sharks, skates, lamprey-eels, sturgeons, etc., and the tailed batrachians.
 1275. WILEY, HARVEY W., Lafayette Ind. *Mineralogy.*
 1276. WILKIE, JOHN, M. A., Guelph, Ont., Canada. *Mineralogy, Geology, Entomology, Botany.*
 1277. WILKINS, D. F. H., B. A., Albert College, Belleville, Ontario, Canada. *Geology.*
 1278. WILKINSON, R., Toronto, Canada. *Entomology: Lepidoptera.*
 1279. WILLARD, ARTHUR W., P. O. Box 1238 Boston, Mass. *Entomology, Ornithology.*
 1280. WILLARD, S. L., Utica, N. Y. *Ornithology, Oölogy.* Exchange.
 1281. WILLCOX, JOSEPH, Acad. Nat. Sciences, Phila., Pa. *Mineralogy.*
 1282. WILLEY, HENRY, New Bedford, Mass. *Botany: Lichens.*
 1283. WILLIAMS, A. M., M. D., Meadville, Pa. *Nat. History, Taxidermy.*
 1284. WILLIAMS, CHAS. H., Winchester, Conn. *Ornithology.*
 1285. WILLIAMS, F. H., Wyandotte, Mich. *Mining Engineer.*
 1286. WILLIAMS, J. L., Fountaindale, Winnebago Co., Ill. *Botany.*
 1287. WILLIAMS, LORENZO D., Prof. Nat. Sci. Alleghany Coll., Meadville, Pa. *Natural History.*
 1288. WILLIAMS, MILO G., Urbana, Champaign Co., Ohio. *Botany, Conchology, Palæontology.*
 1289. WILLIAMSON, JOHN, Louisville, Ky. *Botany.* Exchange.
 1290. WILLIS, OLIVER R., White Plains, N. Y. *Botany.*
 1291. WILLISTON, S. W., Yale College Museum, New Haven, Conn. *Palæontology.*
 1292. WILLISTON, SAM'L W., Cambridge, Mass. *Lepidoptera.*
 1293. WILSON, HAROLD B., 97 Dayton St., Cincinnati, Ohio. *Palæontology.* Vertebrates. Exchange.
 1294. WILSON, JAMES, Leavenworth, Kans. *Botany: Ferns.*
 1295. WILSON, LOUIS, Port Townsend, Washington Territory.
 1296. WILSON, THOMAS J., P. O. Box 44, Auburn, N. Y. *Ornithology, Oölogy.*
 1297. WILSON, Wm. M., P. O. Box 2733, Denver, Colo. *Botany.* Exchange.
 ✓ 1298. WINCHELL, ALEXANDER, Syracuse, N. Y. *Geology, Biology.*
 1299. WINCHELL, N. H., State Geologist, Prof. in State Univ., Minneapolis, Minn. *Geology, Mineralogy.*
 1300. WINSLOW, J. E., Virgil, Cortland Co., N. Y. *Natural History.*
 1301. WINSLOW, R. K., Cleveland, O. *Ornithology.*
 1302. WINTERS, J. K. P., Beaver, Winona Co., Minn.



1303. WOLF, JOHN, Canton, Ill. *Botany, Conchology, Palæontology*. Ex.
1304. WOLFORTH, AUG. F., 508 Market St., St. Louis, Mo. *Entomology*. Exchange.
1305. WOLLE, FRANCIS, Bethlehem, Pa. *Fresh Water Algae and Desmids*. Exchange.
1306. WOOD, AUG. H., Painted Post, N. Y. *Ornithology, Taxidermy*. Ex.
1307. WOOD, CHAS. H., Augusta, Hancock Co., Ill. *Geology, Mineralogy*. Exchange.
1308. WOOD, WM. M. D., East Windsor Hill, Conn. *Ornithology, Oölogy, Archæology*.
1309. WOODWARD, DR. AUGUSTUS J., 443 W. 7th St., Cincinnati, O. *Coleoptera, Herpetology*.
1310. WOODWARD, E. M., 53 N. Charles St., Baltimore, Md. *Entomology*.
1311. WOODWORTH, JOHN M., M. D., Washington, D. C. *Zoölogy, Comp. Anatomy*.
1312. WOODWORTH, LUKE, M. D., Hartland, Johnson's Creek P. O., Niagara Co., N. Y. *Botany*.
1313. WOODWARD, L. F., Worcester, Mass. *Zoölogy, Ornithology*.
1314. WOOLFENDEN, FREDERICK, Detroit, Mich. *Natural History*.
1315. WOOLEY, CHAS. F., Freehold, N. J. *Ethnology*. Exchange.
1316. WOOLEY, LEVI, Lewiston, Me. *Zoölogy*.
1317. WOOLSON, GEO. C., Passaic, N. J. *Botany*.
1318. WOOLSON, MOSES, Concord, N. H. *Mineralogy, Zoölogy*. Exchange.
1319. WORTHEN, A. H., State Geologist, Warsaw, Ill. *Geology*.
1320. WORTHEN, CHAS. K., Warsaw, Ill. *Naturalist, Taxidermist*.
1321. WORSTER, JOSEPH, M. D., 1153 30th St., N. Y. City. *Geology*.
1322. WOOSTER, L. C., Whitewater, Wis. *Geology, Palæontology*. Asst., Wis. Geol. Sur. Address until June 11, '77, 118 Park St., Buffalo, N. Y.
1323. WORTHINGTON, C. E., Chicago, Ill. *Entomology: Lepidoptera, Bombycidae*. Exchange.
1324. WRENSHALL, R. C., 94 Diamond St., Pittsburg, Pa. *Ornithology, Microscopy*.
1325. WRIGHT, ALBERT A., Prof. Geology and Natural History, Oberlin College, Oberlin, O. *Geology, Zoölogy*. Jamaica and other Shells for exchange.
1326. WRIGHT, CHAS., Wethersfield, Conn. *Botany*.
1327. WRIGHT, PROF. PERLIN HART, Penn Yan, Yates Co., N. Y. *Entomology, Mineralogy*. Exchange.
1328. WRIGHT, R. RAMSAY, M. A., B. Sc., Prof. Natural History, Univ. Coll., Toronto, Canada.
1329. WRIGHT, SAMUEL H., A. M., Ph. D., Penn Yan, Yates Co., N. Y. *Botany, Caricology*. Exchange.
1330. WURTELL, L. C., Acton Vale, Prov. Quebec, Canada. *Coleoptera*.
1331. YARROW, DR. H. C., Care Surgeon Gen. U. S. A., Washington, D. C., *Zoölogy, Ethnology, Ichthyology, Herpetology*.
1332. YATES, LORENZO G., Centreville, Alameda Co., Cal. *Mineralogy, Conchology, Fossil Vertebrates, Archæology*. Exchange.
1333. YOUNG, A. HARVEY, Hanover, Ind. *Botany*. Fossils for exchange.
1334. YOUNG, MRS. M. J., Houston, Harris Co., Texas. *Botany*.
1335. ZABRISKIE, REV. J. L., New Baltimore, Greene Co., N. Y. *Entomology, Mycology*.
1336. ZAHM, S. H., Lancaster, Pa. *Ornithology, Oölogy*.
1337. ZENTMAYER, JOSEPH, Philadelphia, Pa. *Manufacturer of Microscopes*.
1338. ZESCH, FRANK, 500 Main St., Buffalo, N. Y. *Coleoptera, Lepidoptera*. Would like to exchange his collection of Lepidoptera, in first class condition, all from this locality, for Coleoptera. Also, from 4 to 500 Coleoptera for exchange.
1339. ZIMMERMAN, CHAS. D., 571, Main St., Buffalo, N. Y. *Entomology: Coleoptera*. Exchange.

APPENDIX.

1340. ALLEN, RICHARD H., P. O. Box 376, N. Y. City. *Ornithology*.
1341. ALLING, C. P., M. D., Dunkirk, Chautauqua Co., N. Y. *Biology*.
1342. AYRES, REV. W. W., Wickford, R. I. *Botany*.
1343. BABCOCK, W. IRVING, 161 Lefferts Place, Brooklyn, N. Y. *Ornithology, Oology*.
1344. BAXTER, M. S., Adams Basin, Monroe Co., N. Y. *Botany; Entomology*.
1345. BELL, ROBERT C. E., F. G. S., Geol. Sur. of Canada, Montreal, Canada. *Geology, Zoology, Archæology, Exchange*.
1346. BENTLEY, E. T., Tioga, Tioga Co., Pa.
1347. BIDWELL, E. M., Saybrook, Middlesex, Co. Conn. *Ornithology*.
1348. BLAKE, CHAS. A., Philadelphia, Pa. *Entomology, Lepidoptera*.
1349. BRIDGHAM, MRS. S. W., 24 Waverly Place, N. Y. City. *Lepidoptera*.
1350. BROWNE, WALTER H., River Bend Station, Rush Creek Rancho, Colo. *Ornithology*.
1351. BUELL, IRA M., Beloit, Wis. *Botany, Palæontology, Exchange*.
1352. CARR, LUCIEN, Asst. Curator, Peabody Mus. Am. Archæology and Ethnology, Cambridge, Mass. *Anthropology*.
1353. CARTER, JARVIS L., Paris, Me. *Ornithology, Oology, Lepidoptera*.
1354. CARTER, SAMUEL R., Paris, Me. *Mineralogy, Geology, Archæology, Herpetology*.
1355. CLAYPOLE, EDW. W., Antioch Coll., Yellow Springs, O. *Geology, General Natural History*.
1356. COOPER, J. C., Topeka, Kans. *Geology, Mineralogy*.
1357. CRAFTS, SAMUEL D., Boston Highlands, Mass. *Ornithology*.
1358. CROGIN, FRANCIS W., Brooklyn, N. Y. *Zoology; Herpetology*.
1359. DAVENPORT, R. W., Germantown, Philadelphia, Pa. *Metallurgy of Iron and Steel*.
1360. DAVIS, CHAS. P. & SONS, Utica, N. Y. *Taxidermy*.
1361. DAVIS, F. J., Utica, N. Y. *Taxidermy, Ornithology, Oology*.
1362. DICKEL, GEORGE, Louisville, Ky. *Coleoptera, Lepidoptera, Taxidermy*.
1363. DOUGLAS, C. W. & T. H., Waukegan, Lake Co., Ill. *Ornithology, Oology*.
1364. DUFRESNE, D. O. R., Chicoutimi, P. Q., Canada. *Entomology, Botany*.
1365. DUNLAP, W. W., P. O. Box 525, Montreal, Canada. *Oology*.
1366. EATON, T. E. N., Worcester, Mass. *Ornithology*.
1367. ENDLICH, F. M., Smithsonian Institution, Washington, D. C. *Mineralogy, Geology*.
1368. FOLLETT, —, Diamond Hill, R. I. *Mineralogy*.
1369. FONTARIVE, EMILE, Boston, Mass. *Microscopy, Diatoms*.
1370. GARNIER, JOHN H., M. D., Lucknow, Ontario, Canada. *Mammalia, Reptilia, Botany, Exchange Lily Bulbs*.
1371. GENTH, F. A., Philadelphia, Pa. *Mineralogy, Geology*.
1372. GIBBS, R. M. W., Kalamazoo, Mich. *Ornithology, Entomology, Ex.*

1373. GILBERT, CHAS. H., Indianapolis, Ind. *Ornithology, Ichthyology, Botany.*
1374. GILL, WM. L., Lancaster, Pa. *Palæontology, Ornithology, Ichthyology.*
1375. GOODWIN, A. C., Charlestown, Clark Co., Ind. *Geology, Mollusca.* Exchange.
1376. HADLEY, LIDA D., Richmond, Ind. *Geology.* Exchange.
1377. HALL, JAMES, State Geologist and Director N.Y., State Museum, Albany, N. Y. *Geology, Palæontology.*
1378. HAMES, CHAS. H., Essex, Mass. *Mineralogy, Entomology.*
1379. HARTSHORNE, HENRY, Union Springs, N. Y. *Biology.*
1380. HASKELL, MISS C. C., Poughkeepsie, N. Y. Teacher of Botany in Vassar College. *Filices.*
1381. HIGGINSON, T. W., Newport R. I. *Botany, Entomology, Ornithology.*
1382. HOLBROOK, J. J., New London, N. H. *Geology.* Exchange.
1383. HOMER, REV. NOEL R., Clarksdale, Miss. *Entomology, Ornithology, Taxidermy.*
1384. HOUGHTON, CHAS. A., West Medway, Mass. *Ornithology.* Exchange.
1385. HUMPHREYS, JOHN T., Lynchburg, Campbell Co., Va. *Entomology: Lepidoptera.* Exchange.
1386. JENNISON, H. L., Starkey, Yates Co., N. Y.
1387. JOHNSON, JAMES, Frankford, Phila., Pa. *Entomology: Lepidoptera.*
1388. JOHNSON, REV. W. A., Weston, Ont., Canada. *Microscopy.*
1389. JONES, JOSHUA, Ann Arbor, Mich. *Ornithology.*
1390. JORDAN, MRS. SUSAN BOWEN, Irvington, Ind. *Botany, Ornithology, Ichthyology.*
1391. KELLOGG, M. D., 2132 O'Farrell St., San Francisco, Cal. *Botany.*
1392. KING, CLARENCE, 23 Fifth Ave., N. Y. City. *Geology.*
1393. KNAPP, F. N., Plymouth, Mass. *Ornithology, Botany.*
1394. KNAPP, DR. JAMES, Louisville, Ky. *Palæontology.*
1395. KUNZE, RICHARD E., M. D., 606 3d Ave., N. Y. City. *Medical Botany,* Exchanges Exotic Cactacæ, genus *Cercus*, especially Nocturnal-flowering species.
1396. LADD, CHRISTINE, Poquonock, Hartford Co., Conn. *Botany.*
1397. LAWS, S. S., Columbia, Mo. *Physiology,*
1398. LOWE, F. C., Dunnville, Ont., Canada. *Entomology.*
1399. LYON, VICTOR W., Jeffersonville, Clark Co., Indiana. *Geology, Palæontology, Crinoids.*
1400. McALLAN, WM., Ghant, Carrol Co., Ky. *Entomology.*
1401. MILLS B. M., Needham, Mass. *Ornithology.*
1402. MURPHY, CLARENCE E., P. O. Box 181, Salem, Mass.
1403. NUHLEMAN, J. R., Woodburn, Macoupin Co., Ill. *Entomology: Coleoptera, Lepidoptera.*
1404. RICHARDS, ROBERT H., Boston, Mass. *Mining, Mineralogy.*
1405. RICHARDSON, F. C. A., East St. Louis, Ill. *Physiology, Archæology.*
1406. ROOSEVELT, THEODORE, JR., 16 Winthrop St., Cambridge, Mass. *Vertebrates.*
1407. ROTHROCK, J. T., Prof. Botany, University of Pa., Philadelphia, Pa.
1408. SHAW, JAMES M., So. Waterford, Me. *Mineralogy.* Exchange.
1409. SHUNER, HENRY, A. M., M. D., Mount Carroll, Carroll Co., Ill. *Ornithology, Entomology.*
1410. SIAS, SOLOMON, A. M., M. D., Schoharie, N. Y. *Geology.* Exchange.
1411. SMITH, HERBERT W., P. O. Box 2621 St. Paul, Minn. *Mineralogy.* Exchange.
1412. SMITH, WM. R., Washington, D. C. *Superintendent Botanic Gardens.*
1413. SUTTON, GEORGE, M. D., Aurora, Dearborn Co., Ind. *Archæology.*
1414. TAYLOR, PROF. GEO. W., Cazenovia, Madison Co., N. Y. *Geology, Botany.*
1415. THOMAS, W. H. B., Mount Holly, Burlington, Co., N. J. *Geology, Palæontology, Archæology.*

1416. TURNER, DR. R. S., Fort George, Fla. *Microscopy*.
1417. VORDON, M. M., P. O. Box 1156, Toronto, Canada. *Entomology*.
1418. WACHSMUTH, CHAS., Burlington, Ia. *Palæontology: Crinoids*. Exchange for Crinoids.
1419. WALCOTT, C. D., State Museum Natural History. Albany, N. Y.
1420. WHITEAVES, J. F., Palæontologist to the Geol. Sur. of Canada. *Zoölogy, Palæontology*.
1421. WILSON, EDW. B., New Haven, Conn. *Marine Invertebrates*.
1422. WOODMAN, H. F., Dubuque, Iowa. *Geology, Invertebrate Zoölogy, Recent and Fossil Corals*.
1423. ALEXANDER, SIDNEY, S., Louisville, Ky.
1424. BARLOW, SCOTT, Geological Survey, Montreal, Canada. *Geology*.
1425. CARPENTER, WM. B., M. D., Leavenworth, Kans. *Floriculture, Horticulture, Entomology*.
1426. COOK, W., 141 Eighth St., N. Y. City. *Mineral, Fossils, Shells*.
1427. CARTER, Ed., Breckenridge, Summit Co., Cal. *Mammalogy, Ornithology, Entomology*.
1428. ENNIS, A. M., Philadelphia, Pa. *Geology, Astronomy*.
1429. ELLS, R. W., Geological Survey, Montreal, Canada. *Geology*.
1430. FLETCHER, HUGH, Geological Survey, Montreal, Canada. *Geology*.
1431. FOLEY, CHARLES, Lindsay, Ont., Canada. *Ornithology*.



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Collins.	265	Love.	768	Wood.	1306	Judge.	685		
Coolridge.	274	Matteson.	795	Wood.	1308	Kirk.	707		
Cooper.	280	Maynard.	799	Woodward.	1313	Klippart.	711		
Cory.	283	McLaughlin.	806	Wrenshall.	1321	Lea.	743		
Couper.	288	McLeod.	807	Zahm.	1336	Lesquereux.	754		
Crapnell.	294	Mead.	815	Allen.	1340	Lewis.	757		
Cressy.	295	Meamber.	816	Babcock.	1343	Loer.	764		
Davidson.	317	Mearns.	817	Bidwell.	1347	Lykins.	773		
Davie.	318	Merriam.	826	Browne.	1350	Malone.	778		
Deane.	332	Milgate.	834	Carter.	1353	Marsh.	787		
Derry.	338	Minot.	843	Crafts.	1357	McMurray.	808		
Dickinson.	341	More.	850	Davis.	1361	McWhorter.	810		
Dixwell.	348	Morgan.	855	Douglas.	1363	Mohr.	847		
Downs.	360	Morse.	857	Eaton.	1366	Nason.	874		
Dryer.	361	Murdoch.	866	Gibbs.	1372	Nelson.	877		
Dubois.	363	Nelson.	878	Gilbert.	1373	Oakes.	898		
Dunbar.	366	Nevin.	880	Gill.	1374	O'Neill.	900		
Dury.	369	Newton.	882	Higginson.	1381	Parkhurst.	914		
Eager.	372	Noble.	889	Homer.	1383	Schooley.	1044		
Eaten.	374	Nottbeck.	891	Houghton.	1384	Scudder.	1053		
Eddy.	376	Park.	912	Jones.	1389	Shaler.	1065		
Edwards.	381	Parker.	913	Jordan.	1390	Shroyer.	1079		
Elliott.	384	Pember.	929	Knapp.	1393	Simonds.	1082		
Ellsworth.	389	Pettigrew.	938	Mills.	1401	Spencer.	1109		
Elmore.	390	Pilate.	950	Shuner.	1409	Stannage.	1111		
Fairbanks.	400	Pilate.	951	Carter.	1427	Starr.	1116		
Fisher.	418	Purdie.	971	Foley.	1431	Steward.	1131		
Fitch.	421	Quick.	975	Orthoptera.				Summers.	1152
Forbush.	431	Ragsdale.	978	See Entomology.				Taylor.	1165
Fowler.	437	Rand.	980	Osteology.				Tryon.	1196
Fowler.	438	Rathburn.	985	Dixwell.				Ulrich.	1203
Freedly.	442	Reiff.	995	Knapp.				Vallandigham.	1206
Gentry.	464	Rice.	1000	Manigault.				Walker.	1223
Gibbs.	468	Richmond.	1002	Weist.				Wetherby.	1254
Girard.	476	Richmond.	1003	Otology.				Wheatley.	1255
Goodhue.	486	Ridgway.	1005	Blake.				White.	1263
Graves.	492	Roop.	1013	Noyes.				Williams.	1288
Gregg.	505	Root.	1014	Paleontology.				Williston.	1291
Grinnell.	509	Reussan.	1018	Aldrich.				Wilson.	1293
Hampton.	537	Sage.	1025	Barrett.				Wolf.	1303
Harper.	543	Samuels.	1029	Barris.				Wooster.	1322
Harriman.	545	Saunders.	1036	Bear.				Yates.	1352
Harrington.	547	Schick.	1040	Blensdell.				Buell.	1351
Harvey.	552	Seiss.	1054	Borden.				Gill.	1374
Hatch.	558	Semple.	1061	Brownell.				Hall.	1377
Henshaw.	573	Sennett.	1062	Bullock.				Knapp.	1394
Herrick.	579	Shorten.	1077	Byrnes.				Lyons.	1399
Hoffman.	600	Sisson.	1083	Calvin.				Thomas.	1415
Holman.	606	Skelton.	1085	Chapman.				Wachsmuth.	1418
Hough.	621	Smith.	1090	Chase.				Whiteaves.	1420
Houghton.	622	Snow.	1102	Cheney.				Cook.	1426
Houghton.	623	Southwick.	1105	Comstock.				Philology.	
Hudunt.	635	Spofford.	1106	Cope.				Dalrymple.	
Humphrey.	637	Stanley.	1113	Couper.				Photography.	
Hurter.	646	Stanton.	1115	Dawson.				Blake.	
Jasper.	664	Stearns.	1123	Day.				Bliven.	
Jenks.	668	Stockwell.	1131	DeBeck.				Meinerth.	
Jilson.	672	Studer.	1149	Dorsch.				Phonetics.	
Jones.	677	Sutton.	1153	Dyer.				Ernst.	
Jones.	679	Tandy.	1160	Elliott.				Phyllopeda.	
Jones.	680	Thompson.	1174	Grinnell.				See Crustacea.	
Kilham.	698	Tillotson.	1184	Grote.				Physiology.	
Kinzer.	706	Trippe.	1190	Hambach.				Amory.	
Kirley.	708	Trombley.	1191	Hamilton.				Flanner.	
Koecker.	718	Trouslot.	1192	Hamlin.				Hooper.	
Kribs.	722	Van Denburg.	1207	Hanks.				Kirsch.	
Kuetzing.	725	Vennor.	1212	Harger.				Meigs.	
Kumlien.	727	Vorce.	1216	Hoadley.				Palmer.	
Kumlien.	728	Wadsworth.	1220	Holden.				Walker.	
Lamb.	734	Warner.	1235	Howell.				Waterman.	
Langdon.	737	Washburn.	1237	Hoyt.				Laws.	
Lawrence.	741	Weld.	1248	Hyatt.				Richardson.	
Lawrence.	742	Wheaton.	1256	James.				Pisciculture.	
LeBaron.	744	Willard.	1279	Judge.				See Ichthyology.	
LeMoine.	750	Williams.	1284						
Locke.	762	Wilson.	1296						
Loomis.	765	Winslow.	1301						
Lorandi.	766								



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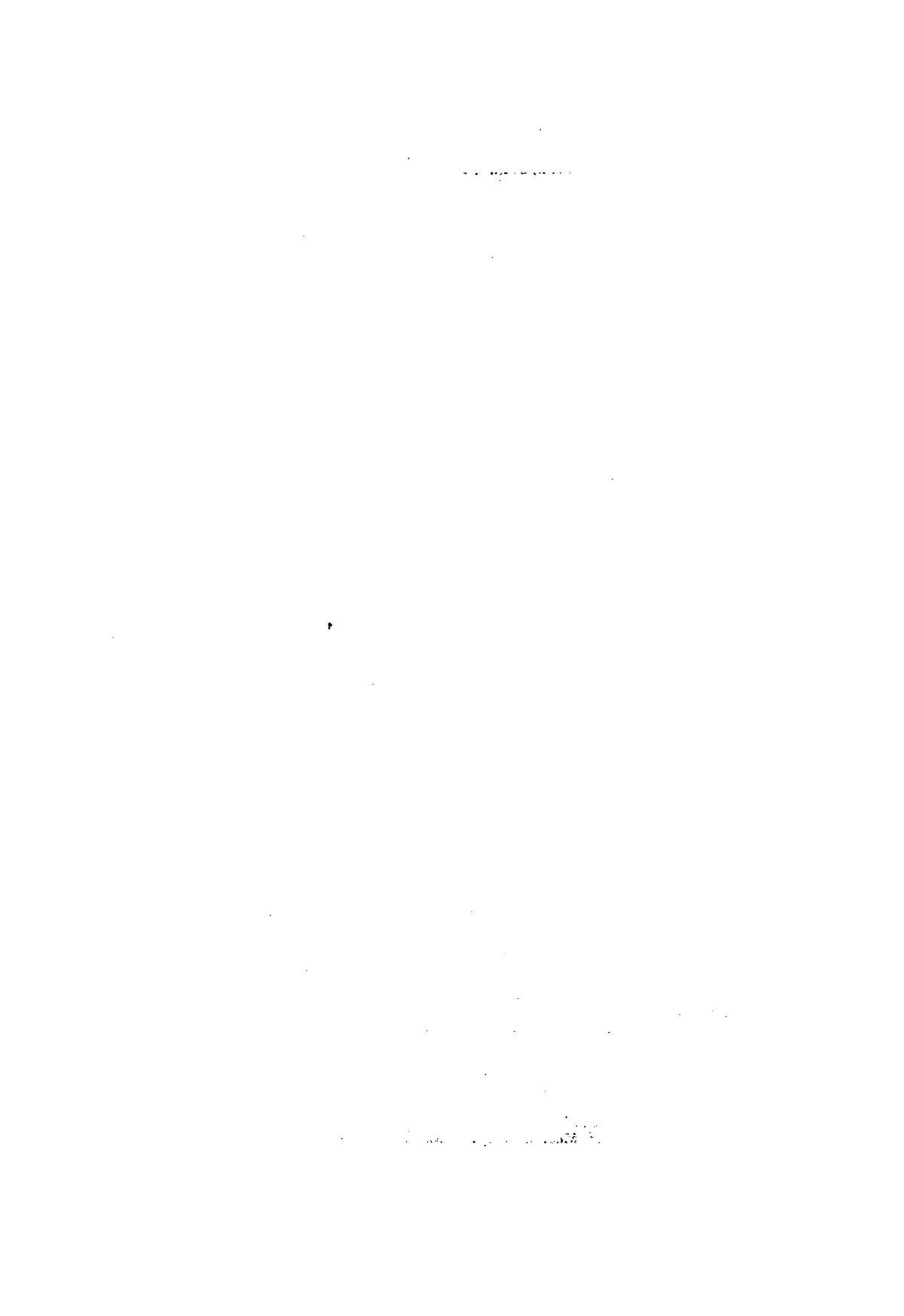
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